

FIG.1

100720-2420660

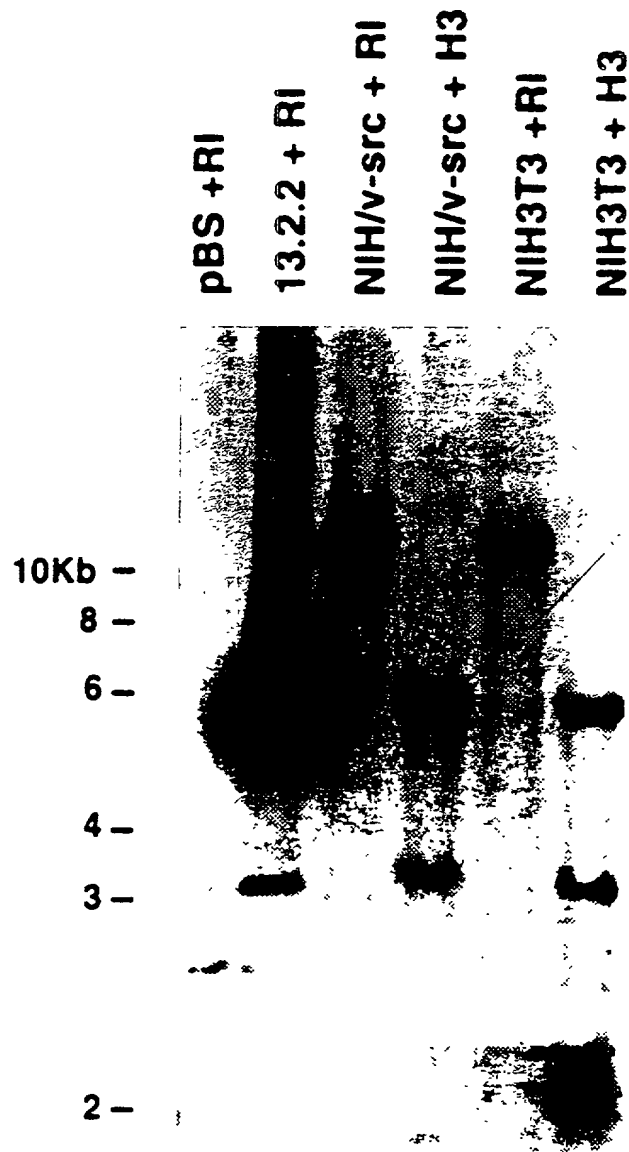


FIG.2A

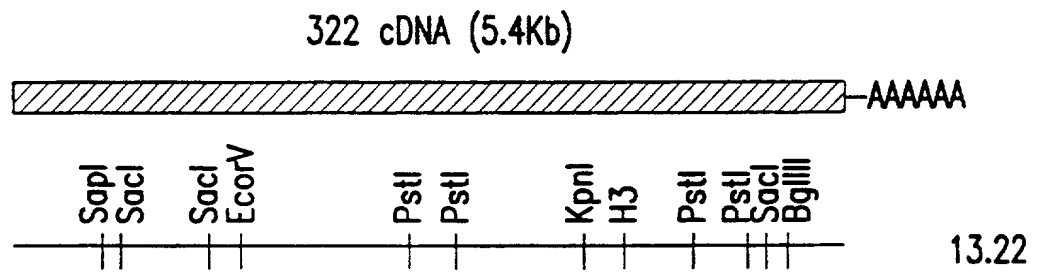


FIG.2B

# Full length

181 gaaaagacagagccagcctcgaggagcagagccggcagaagacacagaccagccag 60  
 3 gtgtcagcagactacgagaaggtggagctgccttggagaccaggtlgtgacctgga 120  
 180 ggcacgtcagaggagaagtgctcctttggcaacggaagtggttgagagaagatgga 180  
 2 M E  
 240 agcccaccaagaagtgtgtcagaggtccacgtgagcaccglggagaagacagaggagga 240  
 3 A H Q E V V A E V E V S T V E K T E E E 22  
 300 qcaggaggaggaggaggtgaagggggcglgglggtagaaggaacaggaatcctt 300  
 23 Q G G G E A F G G V V V E G I G E S L 42  
 360 gccccctgagaaactggctgagccccaggagggtccccccaggaaagctgagcctgctlgagga 360  
 43 P P E K I A E P Q F V P Q E A E P A E E 62  
 420 gclgatgaagagcagagagatgtgtctctgtgaggagaccacactcaactgacagacct 420  
 63 I M K S R E M C V E G G D H T Q L T D L 82  
 480 aagtcctgaagagaagacgctgccccaaacacccagaaggtgtgtcagtgaggtggagat 480  
 83 S P E E K T L P K H P E G I V S E V E M 102  
 540 gctgtcctctcaggaaagaatcaaggtacagggaagtccttgaagaaactcttcagtag 540  
 103 L S S Q E R I K V Q G S P L K K L F S S 122  
 600 ctcaggcttaaagaagctgtctggaagaagcagaaggggaaacgaggaggtgggggaga 600  
 123 S G L K K L S G K K Q K G K R G G G D 142  
 660 cgaagagcctggagaataccaacacattcacaccgaatccccagagagtgctgatgagca 660  
 143 E E P G E Y Q H I H T E S P E S A D E Q 162

FIG.3A

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661 gaaggagagagctctgcgltcgltccccgaggagcctgaggagaccacgtgtctggagaa 720  
 163 K G E S S A S S P E E P E E I I C L E K 182

721 agggccgctggaagcaccagatggggaagctgaggaaggaactactctgtggagagaa 780  
 183 G P L E A P R M G K L R K E L L R G E [K] 202

781 gaagaggaaggatcactccctgggcaccccttcaaaaagatggtgacacccaagaaacggt 840  
 203 [K] R [K] D H S L G I L Q K D G D I Q E T V 222

841 ccgaagacctlctgaagtgacaaggaagagagctggagaaggtcaagagcgccacclt 900  
 223 R R P S F S D K F E L L F K V K S A I L 242

901 glcctccactgatagcacagltgcagaaatgcaagatgaagtcaaaactgttggtagga 960  
 243 S S T D S T V S E M Q D E V K I V G E E 262

961 acaaaagccagaggaaccaagcgtaggtggatacttcagltgtcttgggaagcactgat 1020  
 263 Q K P E F P K R R V D T S V S W E A L I 282

1021 ttgtgtcggatcalccaagaagagagcaaggaaggcctcttccagatataagagggcc 1080  
 283 C V G S S K [K] R A [R] K A S S S D I R G P 302

1081 aaggacactgggaggggacagtcacagagcagagaggccagcaagaagacaagaagccg 1140  
 303 R T L G G G Q S Q S R G G Q Q R Q R S R 322

1141 aacagacgtgttctctgccagcaccagagcagagaccagcaaggaaggaagttcctcacc 1200  
 323 T D A V P A S T Q E Q D Q A Q G S S S P 342

1201 cgagccagcgggaagcccttccgaaggggaaggtgtctccacttgggagtcatttataaag 1260  
 343 E P A G S P S E G E G V S T W E S F K R 362

FIG.3B

1261	attaglcactccaagaaaaaatccaagtcaaaactggaagagaaagaagccggaaggac	1320
363	L V T P R <span style="border: 1px solid black;">K K S K</span> S K L E E K E A G R T	382
1321	tctagttgtaggagcaggttgccactgagatcgaaaccgtgtagagaagaatcttgggtt	1380
383	L V V G A G C P L R S N R V E K N I G F	402
1381	tccattaagaaatlcalcccggaaggcggaagaaaggcagatgggaaggcaagaaca	1440
403	P I R N S S P D G G R K G Q M G R Q E Q	422
1441	agccactgtggaagactcagggccagtggagataaatgaggacgagcctgatgtcccagc	1500
423	A T V E D S G P V E I N E D E P D V P A	442
1501	agtcgtgccctctgtctgagtatgatgcagtggaagaggggagaagatggaagcccaaggga	1560
443	V V P L S E Y D A V E R F K M E A Q G N	462
1561	tgcggagctgccagctgctgggctgtgtagtgtccgaggagctcagtaagactctggt	1620
463	A E L P S C W G C V V S E E L S K T L V	482
1621	ccacactgtgagtgctgcagtcattgatggaccagggcagtcaccagtgctcgaagagcg	1680
483	H T V S V A V I D G T R A K T S K E E R	502
1681	gtctccttcgtggatatccgcttcgtaacagaaacctcttgaacacacagcgggagaagc	1740
503	S P S W I S A S V T E P L E H T A G E A	522
1741	catgccacctgttgaagaggtcacigaaaaagacatcattgcagaagaactcctgtgct	1800
523	M P P V E E V T E K D I I A F F T P V L	542
1801	caccagacggttaccagagggtaaagatgcccatgacgacatggtcaccagtgaaagtgga	1860
543	T Q T L P E G K D A H D D M V T S E V D	562

FIG.3C

1861 ttccacctcagaagctgtgacagaccacagagacctcagaggclclccgtactgaagaagt 1920  
563 F T S E A V T A T F T S E A L R T E V 582

1921 taccgaagcatcggggccgaagagaccacagacatggtglccgcagtttcccagctgac 1980  
583 T E A S G A E E T T D M V S A V S Q L T 602

1981 tgacccccagacaccacagaggaagccacccacgttcaggaggtagagggtggtgtgct 2040  
603 D S P D T T E E A T P V Q E V E G V L 622

2041 agatcacagaagaagagagcgcagacgcagcagccatccccaagccgtlgcagacaaggt 2100  
623 D I E F F R Q T Q A I I Q A V A D K V 642

2101 gaaagaggagtcacaggtccclgcaacccacagactglgcagagaaacgggtcaaaagcact 2160  
643 K E E S Q V P A T Q T V Q R T G S K A L 662

2161 ggagaaggttgaggaggtagaggagactccgaagtgtggtcttcggagaaaagagaagga 2220  
663 E K V F F V F E D S E V L A S E K E K D 682

2221 cgttatgccgaaaggaccgtgcaggagctggagctgagcalcttgacacagggtctga 2280  
683 V M P K G P V Q E A G A E H L A Q G S F 702

2281 gactggacagggtactccagagagcccttgaagttcctgaagtcacagcagatgtagacca 2340  
703 T G Q A T P E S L E V P E V T A D V D H 722

2341 tgtcgccacgtgccaggttatcaagctccagcagctgatggaacagggccgtggccccctga 2400  
723 V A T C Q V I K L Q Q L M E Q A V A P E 742

2401 gtcacccgaaaccttgacagacagtgagacaaatggaagcactcccttagcagatcaga 2460  
743 S S E T L T D S E T N G S T R L A D S D 762

FIG.3D

# Table 3

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2461	cactgcagatgggacacagcaagatgaaccattgacagccaggacagtaaacctgc	2520
763	F A D G T Q Q D E T I D S Q D S K A I A	782
2521	agctgtcaggcagtcacaggtcacagaagaagcggtactgctcagaaagaggagcc	2580
783	A V E Q S Q V I E E A A I A Q K E E P	802
2581	ttcgacactacctaataatgtlccagccccaggaaagaacatggggaagaaccaggaaagaga	2640
803	S T L P N N V P A Q E E H G E E P G R D	822
2641	tggtcttgaacctacacagcaagagcttgctgctcagccgtgccgtctggcaaaagac	2700
823	V L E P I Q Q E L A A A V P V W Q K I	842
2701	tgaggtgggtcaaggggtgaggtgactgggtlggatggagaaaaagtcaaaagaagaaca	2760
843	L V G Q F G E V D W I D G E K V K E E Q	862
2761	ggaggtgtlgtacacictgagaccacagtcacaaaggctgctgatgtgacatatgacag	2820
863	F V F V H S G P N S Q K A A D V T Y D S	882
2821	tgaagtgalgggagtgccgggtgtcaggaaaaaggagagtactgaagtcagagtccttag	2880
883	L V M G V A G C Q E K E S T E V Q S L S	902
2882	cctggaggaggagagatggaaactgacgttgaaaggagaaaaaggagagacaaagccaga	2940
903	L E E G E M E T D V E K E K R E T K P E	922
2941	gcaagtgagtgaaagaaggtgagcaggaaacacagcgcclcgagcatgaaaggaaactacgg	3000
923	Q V S E E G E Q F T A A P E H E R N Y G	942
3001	gaagccagtlcctlgacacttgacatgccagctcagagagggggaaggcactgggaagcct	3060
943	K P V L T L D M P S S E R G K A I G S L	962

FIG.3E



# Full length

3061 tggaggaagcccttctctccagaccaagaacagcaggttgcatagaggttcaagttca 3120  
963 G G S P S I P D Q D K A G C I E V Q V Q 982

3121 aagcctggacacaacagtcactcaaacagcagaagctggaaaaaggtcatagaaacggt 3180  
983 S I D I I T V T Q T A E A V F K V I E T V 1002

3181 tgtgatttcagagacaggtgaaagtcagagtgltgtaglgcacacttattaccagctga 3240  
1003 V I S E T G E S P E C V G A H L I P A E 1002

3241 aaagtccctctgcaacgggtggccactggactcttcagcatgcagaggacacggtacccct 3300  
1023 K S S A T G G H W T L Q H A F D T V P L 1042

3301 ggggcctgagtcacagcagaatccatcccaatcalagtaactcctgctcctgaaagcac 3360  
1043 G P F S Q A I S I P I I V T P A P E S T 1062

3361 ctatcatcctgacctacaaggagaaataagcgcacatccagagagagcagatcagaggaaga 3420  
1063 I H P D L Q G E I S A S Q R E R S E E E 1082

3421 ggacaagccagatgctggtcctgatgctgacggcaaggagagagtacagcaatcgacaaagt 3480  
1083 D K P D A G P D A D G K E S T A I D K V 1102

3481 cctcaaggctgaacctgagatcctggaacttgagagtaagagcaacaagattgtgctgaa 3540  
1103 L K A E P E I L E L E S K S N K I V L N 1122

3541 cglcatcagacagccgttgaccagltcgcacgtacagaaaacagccccgaaactcatgc 3600  
1123 V I Q I A V D Q F A R T E I A P E T H A 1142

3601 ttatgattcacagacccaggttcctgcaalgcgcttgacagcagggagcccaacagatg 3660  
1143 Y D S Q T Q V P A M R L D S R E P N R C 1162

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FIG.3F

3661 ctggacaaaaatgaaagtgccaagatgaaacacccagtgccgcagccagagaggactt 3720  
1163 W I K M K V A K M K H P V P Q P R E D L 1182

3721 gcaagtcctgaccgttctggaggcatggctcagtcggaatatgctgccgcgtgtcagt 3780  
1183 Q V L T V L E A W L S S E M L A A L A V 1202

3781 lgaaagcgccggtgtcaaaagtaagcattgagaagclgcctcctcaacccaagatcaaaa 3840  
1203 E S A G V K V S I E K L P P Q P K D Q K 1222

3841 ggagcatgctgtgagccctcagctccaaaagcltagccaggcagagcagtgctcgg 3900  
1223 F H A A D G P Q L Q S I A Q A E A V S G 1242

3901 aaacctaaccaagaalccccagacacccaacggaacaaagtaaccgagagcagtgccc 3960  
1243 N I I K F S P D I N G P K L I F E R C P 1262

3961 ccaaaagttgaggtccaggaagaagaaatgtctaccaagtcagtcacaagagaacaggcc 4020  
1263 Q K I R S R K K K C L P S Q S K R T R P 1282

4021 caggcagaagaggacctgcaggagccaaaggagacctggcagaatcctaagatgttagt 4080  
1283 R Q K R T C R S Q R E T W Q N P K M L V 1302

4081 tgctcattgtacatctgtgaagaccagaatgtgaaaacaagtcacagaacaagatgctgt 4140  
1303 A H C T S V R P E C E N K S Q N K M L L 1322

4141 gttggaccltggaccaagatttcagagcccatgagatccagagagcaggccgtccaat 4200  
1323 L G P W T K I S E P M R S R E Q G R P M 1342

4201 gatttccaccagtagagcaccgccgacaattctgaggcttcctcgggagctagagccagc 4260  
1343 I S T Q \* 1346

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FIG.3G

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FIG. 3H

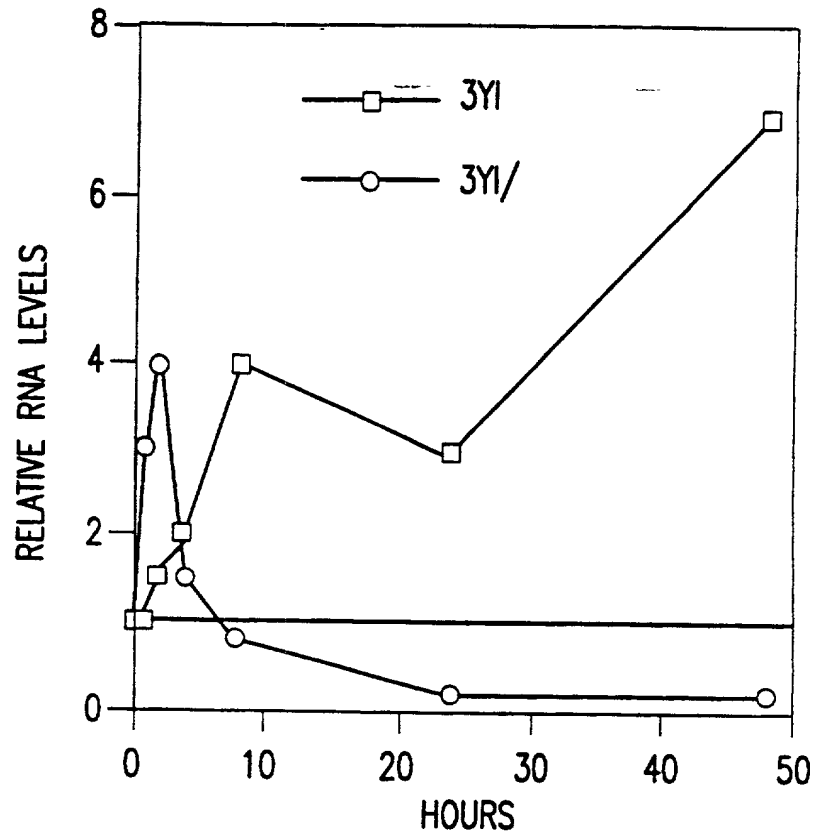


FIG.4A

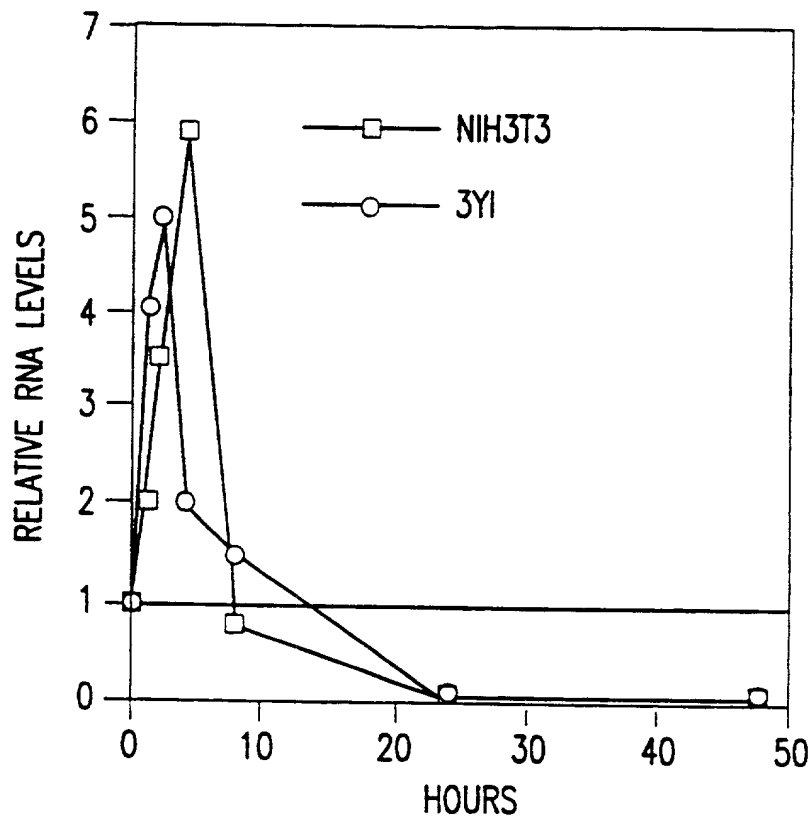


FIG.4B

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rat-6/mos  
rat-6/src  
rat-6/myc  
rat-6/neu  
rat-6/ras  
rat-6/raf-1  
rat-6

FIG.5

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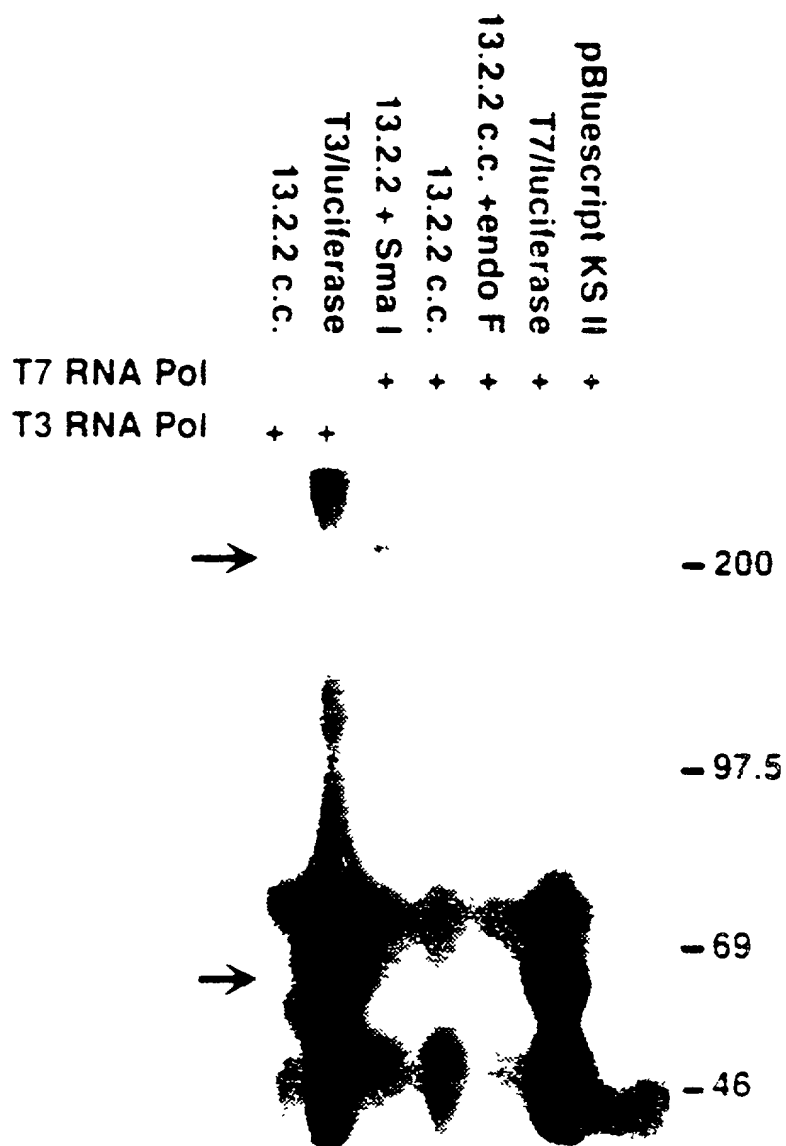


FIG.6

09903433-074004

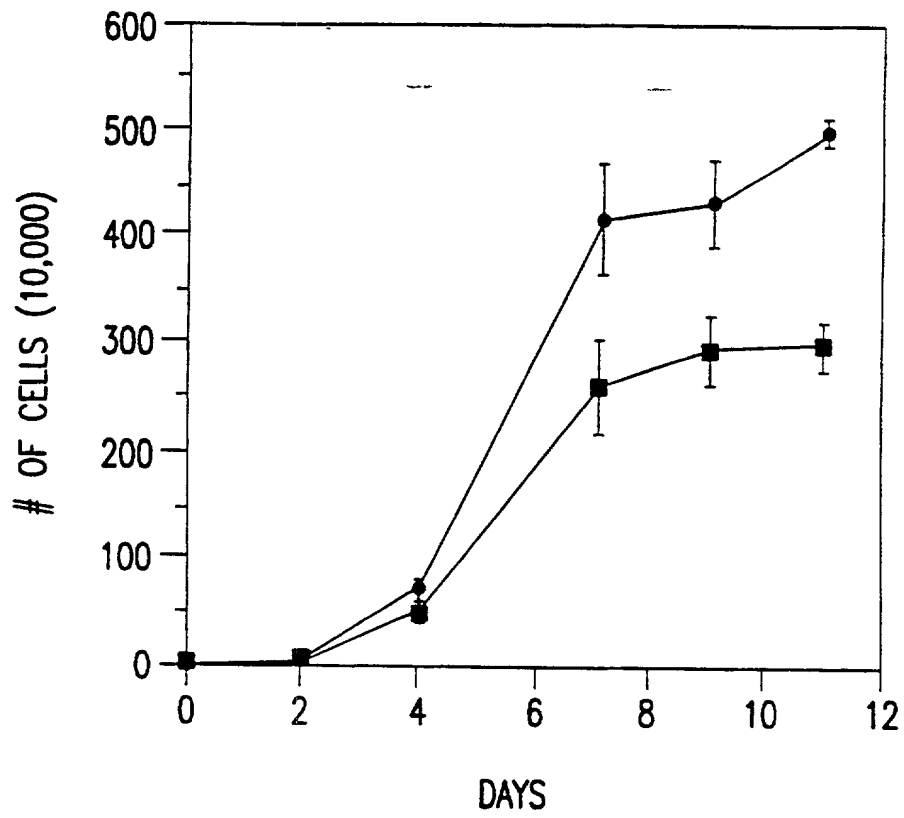


FIG.7A

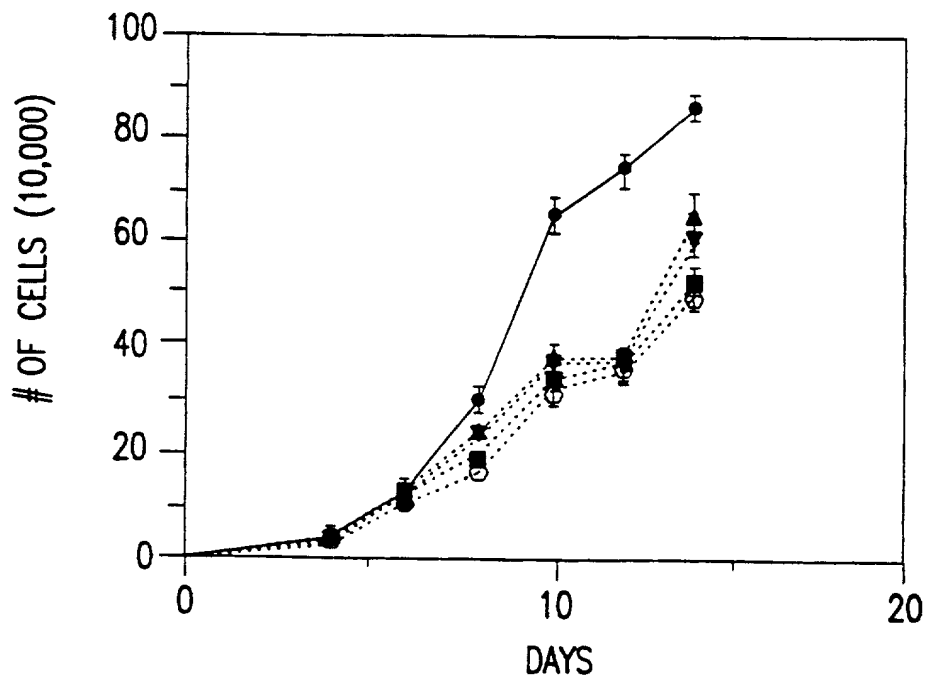


FIG.7B

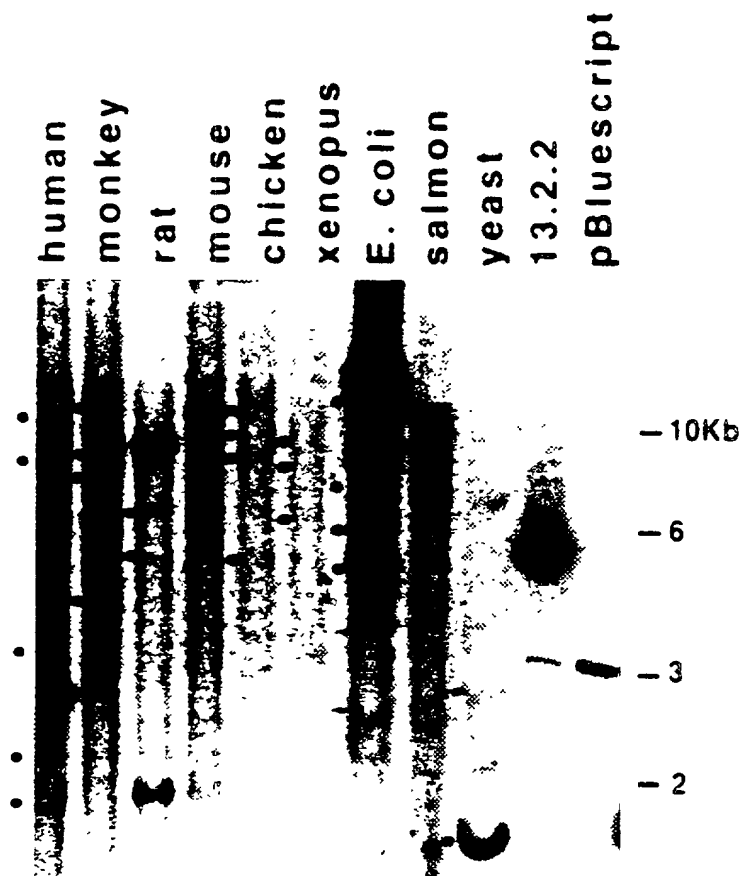


FIG.8



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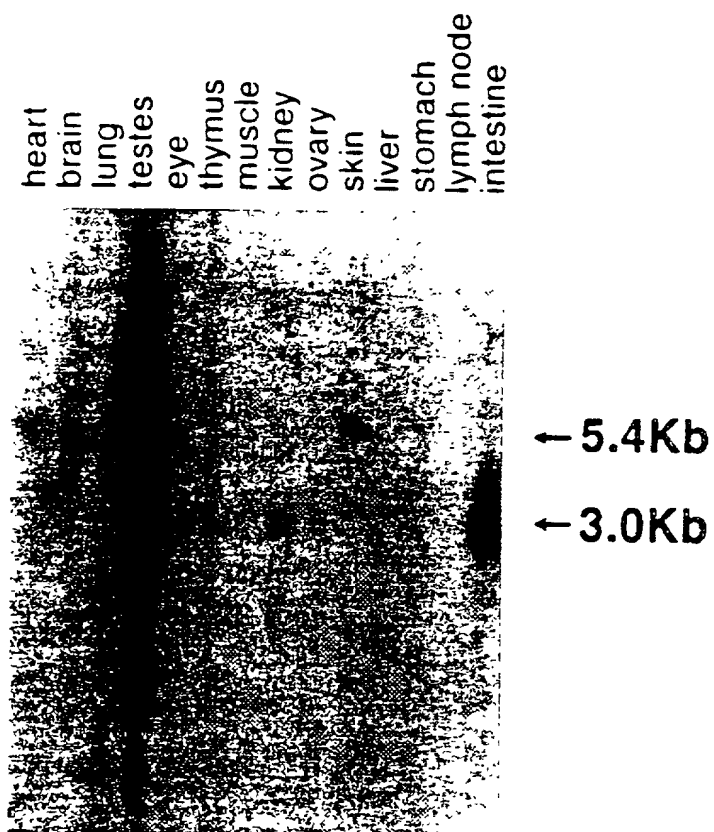


FIG.9

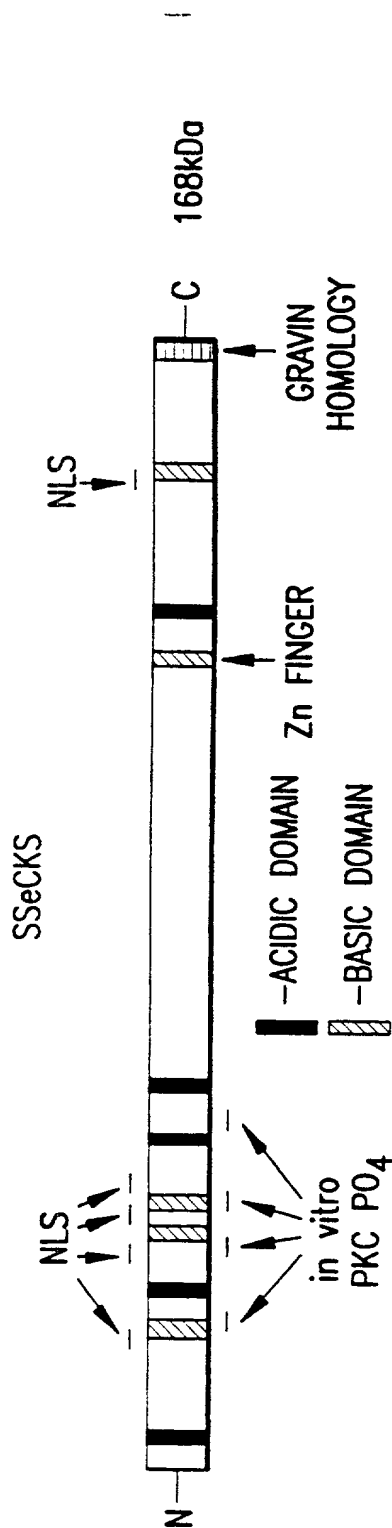


FIG.10

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5' ATG GGC GCA GGC AGT TCC ACC GAG CAG CGG AGC CCC GAG CAG CCG GCG GGG AGC  
M G A G S S T E Q R S P E Q P A G S  
63 72 81 90 99 100  
GAC ACG CCG AGC GAG CTG GTG CTC AGT GGC CAT GGG CCC GCA GCT GAA GCC TCG  
D T P S E L V L S G H G P A A E A S  
117 126 135 144 153 162  
GGA GCA GCT GGA GAC CCC GCC GAC GCG GAC CCC GCC ACC AAG CTC CCA CAG AAG  
G A A G D P A D A D P A T K L P Q K  
171 180 189 198 207 216  
AAT GGC CAG CTG TCT TCT GTC AAC GGC GTA GCT GAA CAA GGA GAT GTC CAT GTC  
N G Q L S S V N G V A E Q G D V H V  
225 234 243 252 261 270  
CAA GAG GAA AAC CAG GAG GGG CAG GAG GAA GAA GTC GTT GAT GAG GAT GTT GGA  
Q E E N Q E G Q E E E V V D E D V G  
279 288 297 306 315 324  
CAG CGA GAG TCA GAA GAT GTG AGA GAA AAA GAC CGA GTT GAA GAA ATG GCG GCC  
Q R E S E D V R E K D R V E E M A A  
333 342 351 360 369 378  
AAC TCC ACA GCT GTT GAA GAT ATC ACA AAG GAT GGG CAG GAG GAG ACA TCA GAA  
N S T A V E D I T K D G Q E E T S E  
387 396 405 414 423 432  
ATA ATT GAA CAG ATC CCT GCT TCA GAA AAC AAT GTG GAA GAA ATG GTA CAG CCT  
I I E Q I P A S E N N V E E M V Q P

FIG.11A

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441	450	459	468	477	486
GCT GAG TCC CAG GCT AAT GAT GTT GGC TTC AAG AAA GTA TTT AAA TTT GTT GGT					
A E S Q A N D V G F K K V F K F V G					
495	504	513	522	531	540
TTT AAA TTC ACG GTG AAG AAG GAT AAA AAT GAA AAG TCA GAT ACT GTC CAA CTA					
F K F T V K K D K N E K S D T V Q L					
549	558	567	576	585	594
CTC ACT GTC AAG AAG GAT GAA GGC GAA GGG GCA GAA GCC TCT GTC GGA GCT GGA					
L T V K K D E G E G A E A S V G A G					
603	612	621	630	639	648
GAC CAC CAG GAG CCC AGT GTG GAG ACT GCC GTC GGA GAG TCA GCA TCC AAA GAA					
D H Q E P S V E T A V G E S A S K E					
657	666	675	684	693	702
AGT GAG CTG AAG CAA TCC ACA GAG AAG CAA GAA GGC ACC CTG AAG CAA GAA CAG					
S E L K Q S T E K Q E G T L K Q E Q					
711	720	729	738	747	756
AGC AGC ACA GAA ATC CCC CTT CAA GCC GAA TCT GAT CAA GCG GCT GAG GAA GAA					
S S T E I P L Q A E S D Q A A E E E					
765	774	783	792	801	810
GCC AAA GAT GAA GGA GAA GAA CAA GAG AAA GAG CCC ACC AAG TCC CCA GAA					
A K D E G E E K Q E K E P T K S P E					
819	828	837	846	855	864
TCC CCG AGC AGC CCA GTC AAC AGT GAG ACA ACA TCT TCC TTC AAG AAG TTC TTC					
S P S S P V N S E T T S S F K K F F					

FIG.11B

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873	882	891	900	909	918
ACT CAC GGT TGG GCC GGC TGG CGC AAG AAG ACC AGC TTC AAG AAA TCA AAA GAG					
T H G W A G W R K K T S F K K S K E					
927	936	945	954	963	972
GAT GAT CTG GAA ACT GCC GAG AAG AGA AAG GAG CAA GAG GCA GAA AAA GTA GAC					
D D L E T A E K R K E Q E A E K V D					
981	990	999	1008	1017	1026
GAG GAA GAA AAG GAA AAG ACA GAG CCA GCC TCG GAG GAG CAG GAG CCG GCA GAA					
E E E K E K T E P A S E E Q E P A E					
1035	1044	1053	1062	1071	1080
GAC ACA GAC CAG GCC AGG TTG TCA GCA GAC TAC GAG AAG GTG GAG CTG CCT TTG					
D T D Q A R L S A D Y E K V E L P L					
1089	1098	1107	1116	1125	1134
GAA GAC CAG GTT GGT GAC CTG GAG GCA TCG TCA GAG GAG AAG TGT GCT CCT TTG					
E D Q V G D L E A S S E E K C A P L					
1143	1152	1161	1170	1179	1188
GCA ACG GAA GTG TTT GAT GAG AAG ATG GAA GCC CAC CAA GAA GTT GTT GCA GAG					
A T E V F D E K M E A H Q E V V A E					
1197	1206	1215	1224	1233	1242
GTC CAC GTG AGC ACC GTG GAG AAG ACA GAG GAG GAG CAG GGA GGA GGA GGA GAG					
V H V S T V E K T E E E Q G G G G E					
1251	1260	1269	1278	1287	1296
GCT GAA GGG GGC GTG GTG GTA GAA GGA ACA GGA GAA TCC TTG CCC CCT GAG AAA					
A E G G V V V E G T G E S L P P E K					

FIG.11C

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1305	1314	1323	1332	1341	1350
CTG GCT GAG CCC CAG GAG GTC CCC CAG GAA GCT GAG CCT GCT GAG GAG CTG ATG					
L A E P Q E V P Q E A E P A E E L M					
1359	1368	1377	1386	1395	1404
AAG AGC AGA GAG ATG TGT GTC TCT GGA GGA GAC CAC ACT CAA CTG ACA GAC CTA					
K S R E M C V S G G D H T Q L T D L					
1413	1422	1431	1440	1449	1458
AGT CCT GAA GAG AAG ACG CTG CCC AAA CAC CCA GAA GGC ATT GTC AGT GAG GTG					
S P E E K T L P K H P E G I V S E V					
1467	1476	1485	1494	1503	1512
GAG ATG CTG TCC TCT CAG GAA AGA ATC AAG GTA CAG GGA AGT CCC TTG AAG AAA					
E M L S S Q E R I K V Q G S P L K K					
1521	1530	1539	1548	1557	1566
CTC TTC AGT AGC TCA GGC TTA AAG AAG CTG TCT GGG AAG AAG CAG AAG GGG AAA					
L F S S S G L K K L S G K K Q K G K					
1575	1584	1593	1602	1611	1620
CGA GGA GGT GGG GGA GAC GAA GAG CCT GGA GAA TAC CAA CAC ATT CAC ACC GAA					
R G G G G D E E P G E Y Q H I H T E					
1629	1638	1647	1656	1665	1674
TCC CCA GAG AGT GCT GAT GAG CAG AAG GGA GAG AGC TCT GCG TCG TCC CCC GAG					
S P E S A D E Q K G E S S A S S P E					
1683	1692	1701	1710	1719	1728
GAG CCT GAG GAG ACC ACG TGT CTG GAG AAA GGG CCG CTG GAA GCA CCC CAG GAT					
E P E E T T C L E K G P L E A P Q D					

FIG.11D

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1737 1746 1755 1764 1773 1782  
GGG GAA GCT GAG GAA GGA ACT ACT\_TCC GAT GGA GAG\_AAG AAG AGA GAA GGG ATC  
-----  
G E A E E G T T S D G E K K R E G I

1791 1800 1809 1818 1827 1836  
ACT CCC TGG GCA TCC TTC AAA AAG ATG GTG ACA CCC AAG AAA CGG GTC CGA AGA  
-----  
T P W A S F K K M V T P K K R V R R

1845 1854 1863 1872 1881 1890  
CCT TCT GAG AGT GAC AAG GAG GAA GAG CTG GAG AAG GTC AAG AGC GCC ACC TTG  
-----  
P S F S D K E E E L E K V K S A T L

1899 1908 1917 1926 1935 1944  
TCC TCC ACT GAT AGC ACA GTG TCA GAA ATG CAA GAT GAA GTC AAA ACT GTT GGT  
-----  
S S T D S T V S E M Q D E V K T V G

1953 1962 1971 1980 1989 1998  
GAG GAA CAA AAG CCA GAG GAA CCA AAG CGT AGG GTG GAT ACT TCA GTG TCT TGG  
-----  
E E Q K P E E P K R R V D T S V S W

2007 2016 2025 2034 2043 2052  
GAA GCA CTG ATT TGT GTC GGA TCA TCC AAG AAG AGA GCA AGG AAG GCA TCC TCT  
-----  
E A L I C V G S S K K R A R K A S S

2061 2070 2079 2088 2097 2106  
TCA GAT GAT GAA GGA GGG CCA AGG ACA CTG GGA GGG GAC AGT CAC AGA GCA GAG  
-----  
S D D E G G P R T L G G D S H R A E

2115 2124 2133 2142 2151 2160  
GAG GCC AGC AAA GAC AAA GAA GCC GGA ACA GAC GCT GTT CCT GCC AGC ACC CAG  
-----  
E A S K D K E A G T D A V P A S T Q

FIG.11E

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2169	2178	2187	2196	2205	2114
GAG CAG GAC CAA	GCG CAA GGA AGT	ICC TCA CCC GAG CCA	GCG GGA AGC CTT	TCC	
E Q D Q	A Q G S S S	P E P A G S	P S		
2223	2232	2241	2250	2259	2268
GAA GGG GAA GGT	GTC TCC ACT TGG	GAG TCA TTT AAA	AGA TTA GTC ACT	CCA AGA	
E G E G	V S T W E S	F K R L V T	P R		
2277	2286	2295	2304	2313	2322
AAA AAA TCC AAG	TCA AAA CTG GAA	GAG AAA GCC GAA	GAC TCT AGT GTA	GAG CAG	
K K S K	S K L E E K	A E D S S V	E Q		
2331	2340	2349	2358	2367	2376
TTG TCC ACT GAG	ATC GAA CCG AGT	AGA GAA GAA TCT	TGG GTT TCC ATT	AAG AAA	
L S T E	I E P S R E E	S W V S I K	K		
2385	2394	2403	2412	2421	2430
TTC ATC CCC GGA	CGG CGG AAG AAA	AGG GCA GAC GGG	AAG CAA GAA CAA	GCC ACT	
F I P G	R R K K R A	D G K Q E Q	A T		
2439	2448	2457	2466	2475	2484
GTG GAA GAC TCA	GGG CCA GTG GAG	ATA AAT GAG GAC	GAC CCT AAT GTC	CCA GCC	
V E D S	G P V E I N	E D D P N V	P A		
2493	2502	2511	2520	2529	2538
GTC GTG CCT CTG	TCT GAG TAT AAT	GCA GTG GAG AGG	GAG AAG ATG GAA	GCC CAG	
V V P L	S E Y N A V	E R E K M E	A Q		
2547	2556	2565	2574	2583	2592
GGG AAT ACG GAG	CTG CCC CAG CTG	CTG GGG GCT GTG	TAC GTG TCC GAG	GAG CTC	
G N T E	L P Q L L G	A V Y V S E	E L		

FIG.11F



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2601	2610	2619	2628	2637	2646												
AGT AAG ACT CTG GTC CAC ACT GTG AGT GTC GCA GTC ATT GAT GGG ACC AGG GCA																	
-----																	
S	K	T	L	V	H	T	V	S	V	A	V	I	D	G	T	R	A
-----																	
2655	2664	2673	2682	2691	2700												
GTC ACC AGT GTC GAA GAG CGG TCT CCT TCG TGG ATA TCC GCT TCC GTA ACA GAA																	
-----																	
V	T	S	V	E	E	R	S	P	S	W	I	S	A	S	V	T	E
-----																	
2790	2718	2727	2736	2745	2754												
CCT CTT GAA CAC ACA GCG GGA GAA GCC ATG CCA CCT GTT GAA GAG GTC ACT GAA																	
-----																	
P	L	E	H	T	A	G	E	A	M	P	P	V	E	E	V	T	E
-----																	
2763	2772	2781	2790	2799	2808												
AAA GAC ATC ATT GCA GAA GAA ACT CCT GTG CTC ACC CAG ACG TTA CCA GAG GGT																	
-----																	
K	D	I	I	A	E	E	T	P	V	L	T	Q	T	L	P	E	G
-----																	
2817	2826	2835	2844	2853	2862												
AAA GAT GCC CAT GAC GAC ATG GTC ACC AGT GAA GTG GAT TTC ACC TCA GAA GCT																	
-----																	
K	D	A	H	D	D	M	V	T	S	E	V	D	F	T	S	E	A
-----																	
2871	2880	2889	2898	2907	2916												
GTG ACA GCC ACA GAG ACC TCA GAG GCT CTC CGT ACT GAA GAA GTT ACC GAA GCA																	
-----																	
V	T	A	T	E	T	S	E	A	L	R	T	E	E	V	T	E	A
-----																	
2925	2934	2943	2952	2961	2970												
TCG GGG GCC GAA GAG ACC ACA GAC ATG GTG TCC GCA GTT TCC CAG CTG ACT GAC																	
-----																	
S	G	A	E	E	T	T	D	M	V	S	A	V	S	Q	L	T	D
-----																	
2979	2988	2997	3006	3015	3024												
TCC CCA GAC ACC ACA GAG GAA GCC ACC CCA GTT CAG GAG GTA GAG AGT GGT GTG																	
-----																	
S	P	D	T	T	E	E	A	T	P	V	Q	E	V	E	S	G	V

FIG.11G

FIG.11G

3033	3042	3051	3060	3069	3078
CTA GAT ACA GAA GAA GAG GAG CGC CAG ACG CAG GCC ATC CTC CAA GCC GTT GCA					
L D T E E E E R Q T Q A I L Q A V A					
3087	3096	3105	3114	3123	3132
GAC AAG GTG AAA GAG GAG TCC CAG GTG CCT GCA ACC CAG ACT GTG CAG AGA ACG					
D K V K E E S Q V P A T Q T V Q R T					
3141	3150	3159	3168	3177	3186
GGG TCA AAA GCA CTG GAG AAG GTT GAG GAG GTA GAG GAG GAC TCC GAA GTG CTG					
G S K A L E K V E E V E E D S E V L					
3195	3204	3213	3222	3231	3240
GCT TCG GAG AAA GAG AAG GAC GTT ATG CCG AAA GGA CCC GTG CAG GAA GCT GGA					
A S E K E K D V M P K G P V Q E A G					
3195	3258	3267	3276	3285	3294
GCT GAG CAT CTT GCA CAG GGC TCT GAG ACT GGA CAG GCT ACT CCA GAG AGC CTT					
A E H L A Q G S E T G Q A T P E S L					
3303	3312	3321	3330	3339	3348
GAA GTT CCT GAA GTC ACG GCA GAT GTA GAC CAT GTC GCC ACG TGC CAG GTT ATC					
E V P E V T A D V D H V A T C Q V I					
3357	3366	3375	3384	3393	3402
AAG CTC CAG CAG CTG ATG GAA CAG GCC GTG GCC CCT GAG TCA TCC GAA ACC TTG					
K L Q Q L M E Q A V A P E S S E T L					
3411	3420	3429	3438	3447	3456
ACA GAC AGT GAG ACA AAT GGA AGC ACT CCC TTA GCA GAT TCA GAC ACT GCA GAT					
T D S E T N G S T P L A D S D T A D					

FIG.11H

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3465	3474	3483	3492	3501	3510
GGG ACA CAG CAA GAT GAA ACC ATT GAC AGC CAG GAC AGT AAA GCC ACT GCA GCT					
-----					
G T Q Q D E T I D S Q D S K A T A A					
-----					
3519	3528	3537	3546	3555	3564
GTC AGG CAG TCA CAG GTC ACA GAA GAA GAG GCG GCT ACT GCT CAG AAA GAG GAG					
-----					
V R Q S Q V T E E E A A T A Q K E E					
-----					
3573	3582	3591	3600	3609	3618
CCT TCG ACA CTA CCT AAT AAT GTT CCA GCC CAG GAA GAA CAT GGG GAA GAA CCA					
-----					
P S T L P N N V P A Q E E H G E E P					
-----					
3627	3636	3645	3654	3663	3672
GGA AGA GAT GTT CTT GAA CCT ACA CAG CAA GAG CTT ACT GCT GCA GCC GTG CCC					
-----					
G R D V L E P T Q Q E L T A A A V P					
-----					
3681	3690	3699	3708	3717	3726
GTT CTG GCA AAG ACT GAG GTG GGT CAA GAG GGT GAG GTT GAC TGG TTG GAT GGA					
-----					
V L A K T E V G Q E G E V D W L D G					
-----					
3735	3744	3753	3762	3771	3780
GAA AAA GTC AAA GAA GAA CAG GAG GTG TTT GTA CAC TCT GGA CCC AAC AGT CAA					
-----					
E K V K E E Q E V F V H S G P N S Q					
-----					
3789	3798	3807	3816	3825	3834
AAG GCT GCT GAT GTG ACA TAT GAC AGT GAA GTG ATG GGA GTG GCC GGG TGT CAG					
-----					
K A A D V T Y D S E V M G V A G C Q					
-----					
3843	3852	3861	3870	3879	3888
GAA AAG GAG AGT ACT GAA GTG CAG AGT CTT AGC CTG GAG GAG GGA GAG ATG GAA					
-----					
E K E S T E V Q S L S L E E G E M E					

FIG.11I

3897	3906	3915	3924	3933	3942
ACT GAC GTT GAA AAG GAG AAA AGG GAG ACA AAG CCA GAG CAA GTG AGT GAA GAA					
---	---	---	---	---	---
T D V E K E K R E T K P E Q V S E E					
3951	3960	3969	3978	3987	3996
GGT GAG CAG GAA ACA GCC GCT CCT GAG CAT GAA GGA ACC TAC GGG AAG CCA GTC					
---	---	---	---	---	---
G E Q E T A A P E H E G T Y G K P V					
4005	4014	4023	4032	4041	4050
CTG ACA CTT GAC ATG CCC AGC TCA GAG AGG GGG AAG GCA CTG GGA AGC CTT GGA					
---	---	---	---	---	---
L T L D M P S S E R G K A L G S L G					
4059	4068	4077	4086	4095	4104
GGA AGC CCT TCT CTC CCA GAC CAA GAC AAA GCA GGT TGC ATA GAG GTT CAA GTT					
---	---	---	---	---	---
G S P S L P D Q D K A G C I E V Q V					
4113	4122	4131	4140	4149	4158
CAA AGC CTG GAC ACA ACA GTC ACT CAA ACA GCA GAA GCT GTG GAA AAG GTC ATA					
---	---	---	---	---	---
Q S L D T T V T Q T A E A V E K V I					
4167	4176	4185	4194	4203	4212
GAA ACG GTT GTG ATT TCA GAG ACA GGT GAA AGT CCA GAG TGT GTA GGT GAC CAC					
---	---	---	---	---	---
E T V V I S E T G E S P E C V G A H					
4221	4230	4239	4248	4257	4266
TTA TTA CCA GCT GAG AAG TCC TCT GCA ACG GGT GGC CAC TGG ACT CTT CAG CAT					
---	---	---	---	---	---
L L P A E K S S A T G G H W T L Q H					
4275	4284	4293	4902	4311	4320
GCA GAG GAC ACG GTA CCC CTG GGG CCT GAG TCT CAG GCA GAA TCC ATC CCA ATC					
---	---	---	---	---	---
A E D T V P L G P E S Q A E S I P I					

FIG.11J

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4329	4338	4347	4356	4365	4374
ATA GTA ACT CCT GCT CCT GAA AGC ACC CTA CAT CCT GAC CTA CAA GGA GAA ATA					
I V T P A P E S T L H P D L Q G E I					
4383	4392	4401	4410	4419	4428
AGC GCA TCC CAG AGA GAG CGA TCA GAG GAA GAG GAC AAG CCA GAT GCT GGT CCT					
S A S Q R E R S E E E D K P D A G P					
4437	4446	4455	4464	4473	4482
GAT GCT GAC GGC AAG GAG AGT ACA GCA ATC GAA AAA GTC CTC AAG GCT GAA CCT					
D A D G K E S T A I E K V L K A E P					
4491	4500	4509	4518	4527	4536
GAG ATC CTG GAA CTT GAG AGT AAG AGC AAC AAG ATT GTG CTG AAC GTC ATT CAG					
E I L E L E S K S N K I V L N V I Q					
4545	4554	4563	4572	4581	4590
ACA GCC GTT GAC CAG TTC GCA CGT ACA GAA ACA GCC CCC GAA ACT CAT GCT TAT					
T A V D Q F A R T E T A P E T H A Y					
4599	4608	4617	4626	4635	4644
GAT TCA CAG ACC CAG GTT CCT GCA TGC AGG CTT GAC AGC AGG GAG CCC AAC AGA					
D S Q T Q V P A C R L D S R E P N R					
4653	4662	4671	4680	4689	4698
TGC TGG ACA AAA ATG AAA GAT GCC AAG ATG AAA CAC CCA GTG CCG CAG CCC AGA					
C W T K M K D A K M K H P V P Q P R					
4707	4716	4725	4734	4743	4752
GAG GAC TTG CAA GTC CTG ACC GTT CTG GAG GCA TGG GCT CAG CCT CGG AAA TGC					
E D L Q V L T V L E A W A Q P R K C					

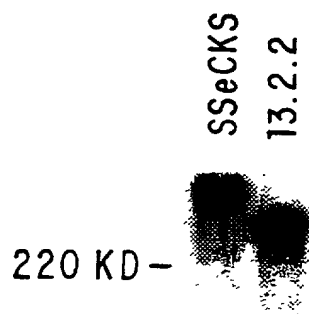
FIG.11K

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4761	4770	4779	4788	4797	4806
TTG CCG CGC	TTG CAG TTG AAA GCG	CCG GTG TCA AAG TAA	GCA TTG AGA AGC	TGC	
L P R	L Q L K A	P V S K	*		
4815	4824	4833	4842	4851	4860
CTC CTC AAC	CCA AAG ATC CAA AAG	GAG CAT GCT GCT	GAT GGC CCT	CAG CTC CAA	
4869	4878	4887	4896	4905	4914
AGC TTA GCC	CAG GCA GAG GCC	AGT GCC TCT GGA	AAC CTA ACC	AAA GAA TCC	CCA
4923	4932	4941	4950	4959	4968
GAC ACC ACC	GGA CCA AAG CTA ACC	GAG GAG GGC	GAT CCC CCA	AAA GTT	CAG GTC
4977	4986	4995	5004	5013	5022
CAG GAA GAA	GAA ATG TCT ACC	AAG TCA GTC AAA	GAG AAC AAG	GCC CAG	GCA GAA
5031	5040	5049	5058	5067	5076
GAG GAC CTG	CAG GAG CCA AAG	GGA GAC CTG	GCA GAA TCC	TCC GAT	GTT AGT TGC
5085	5094	5103	5112	5121	5130
TCA TTG TAC	ATC TGT AAG ACC	AGA ATG TGA AAA	CAA GTC ACA	GAA CAA	GAT GCT
5139	5148	5157	5166	5175	5184
GCT GTT GGG	ACC TTG AGA CCA	AGA TTT CAG	AGC CCA TGA	CAT CCA	GAG AGC AGG
5193					
GCC GTC CAA	TGA TTT C	3'			

FIG.11L

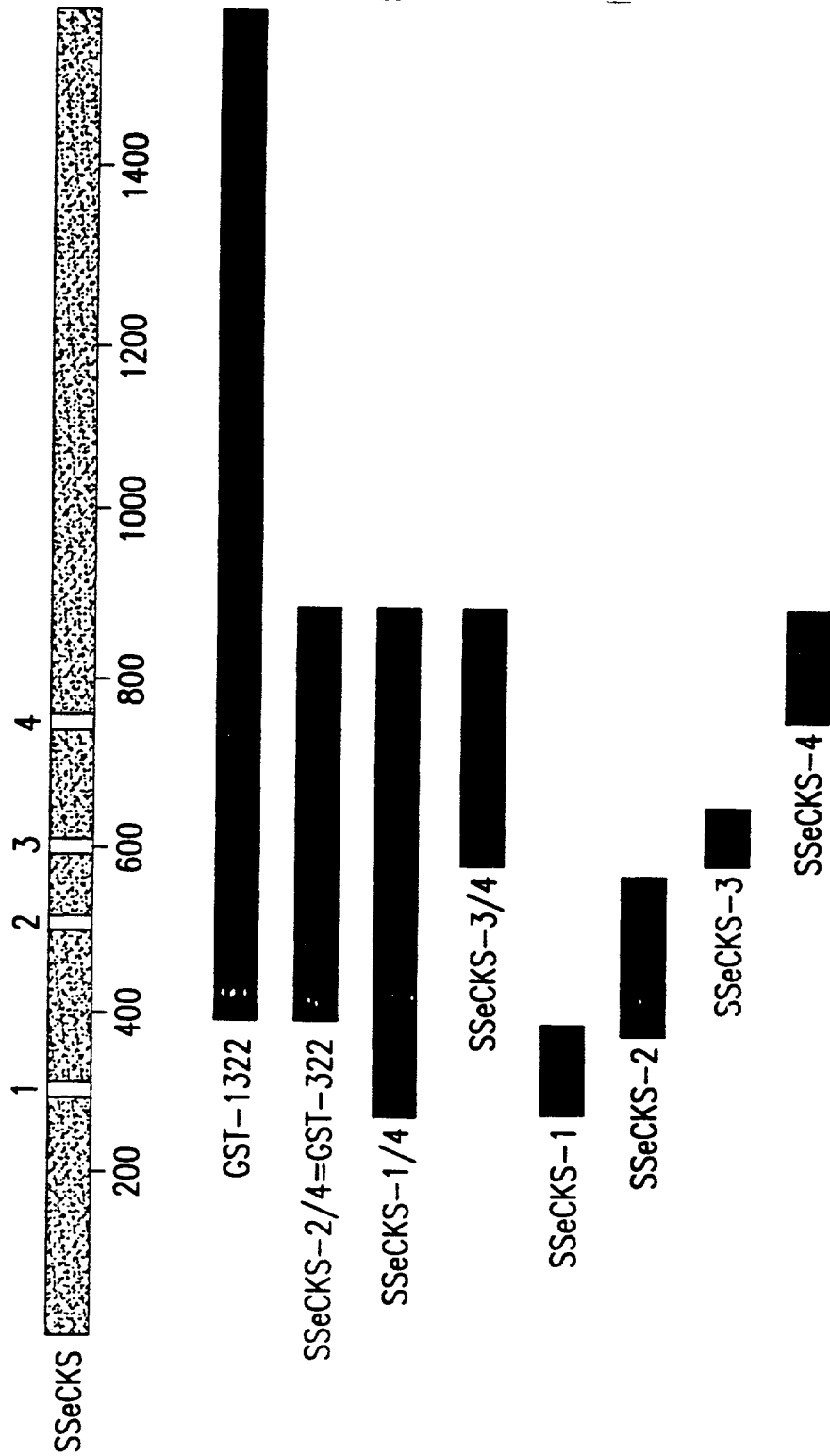
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97.4 -

FIG.12



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FIG.13A



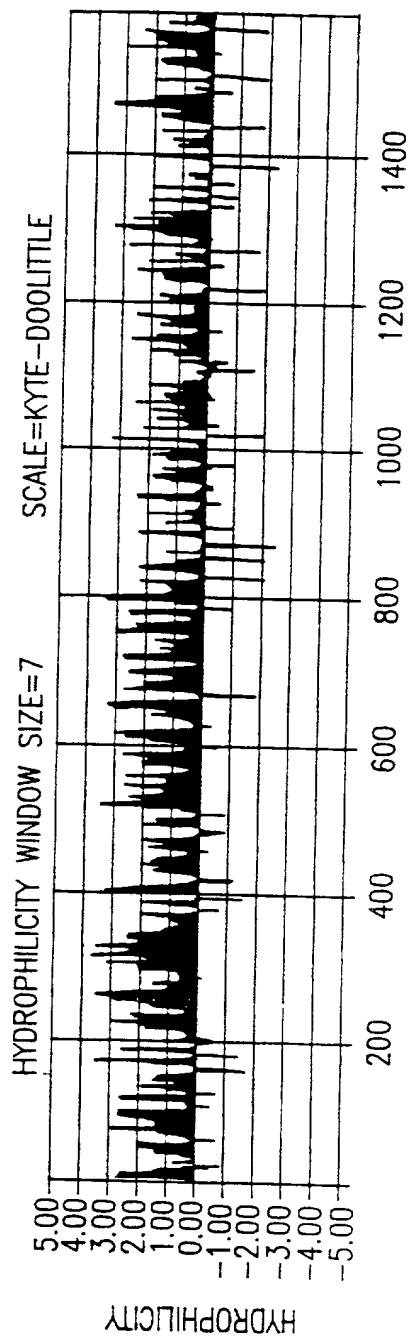


FIG.13B

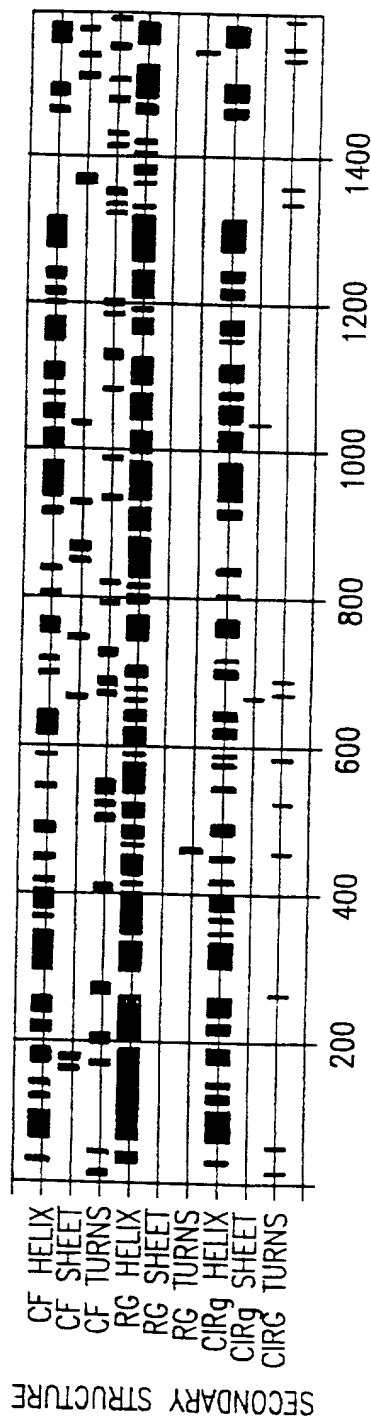


FIG.13C

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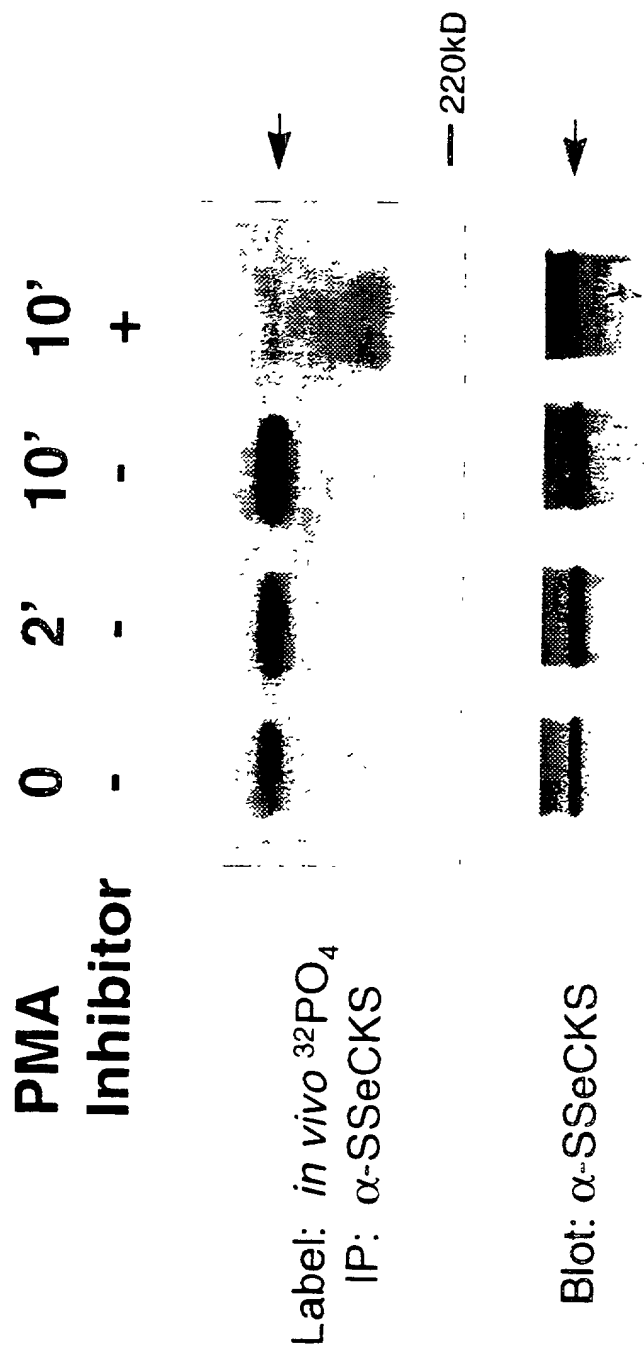
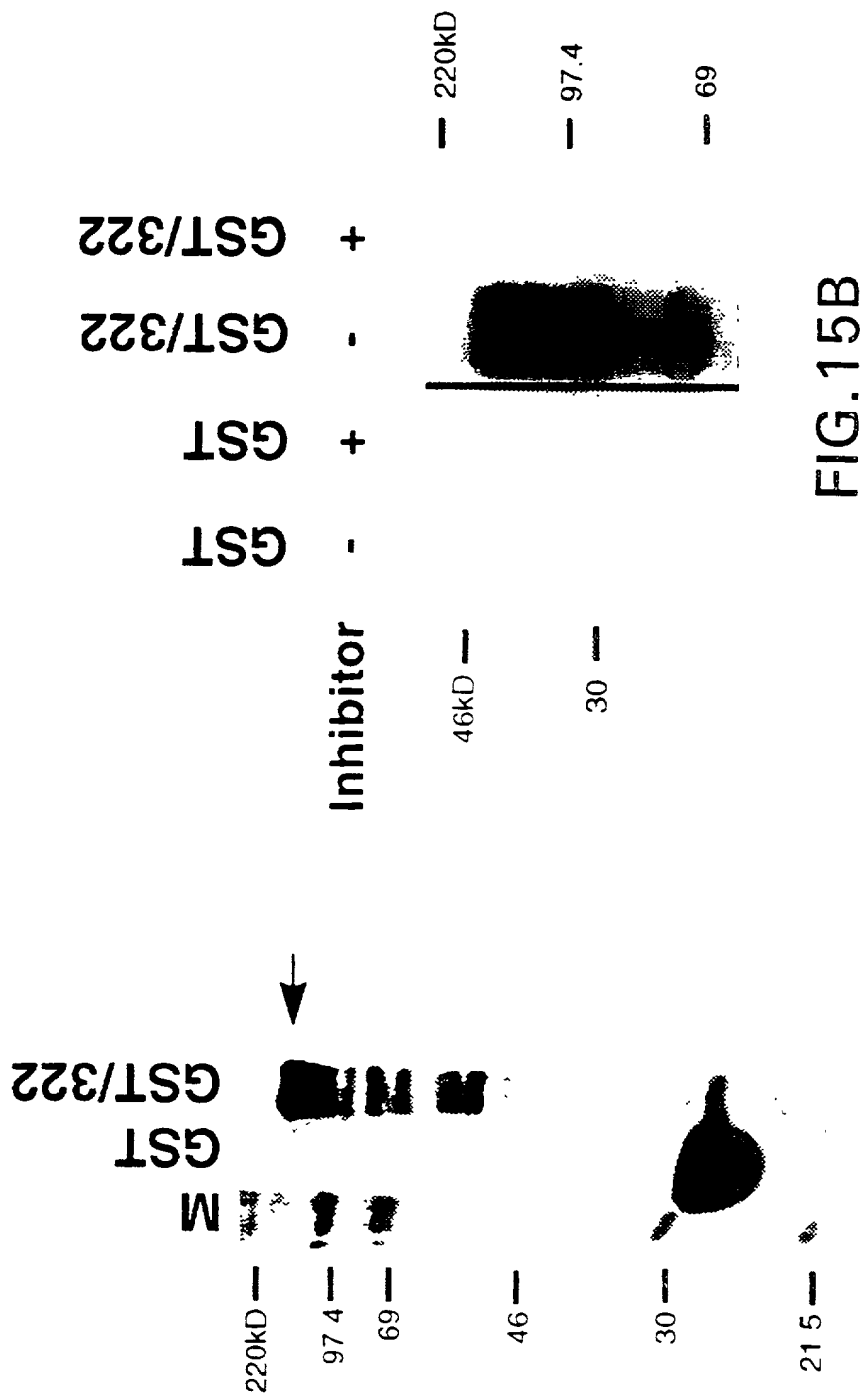


FIG.14

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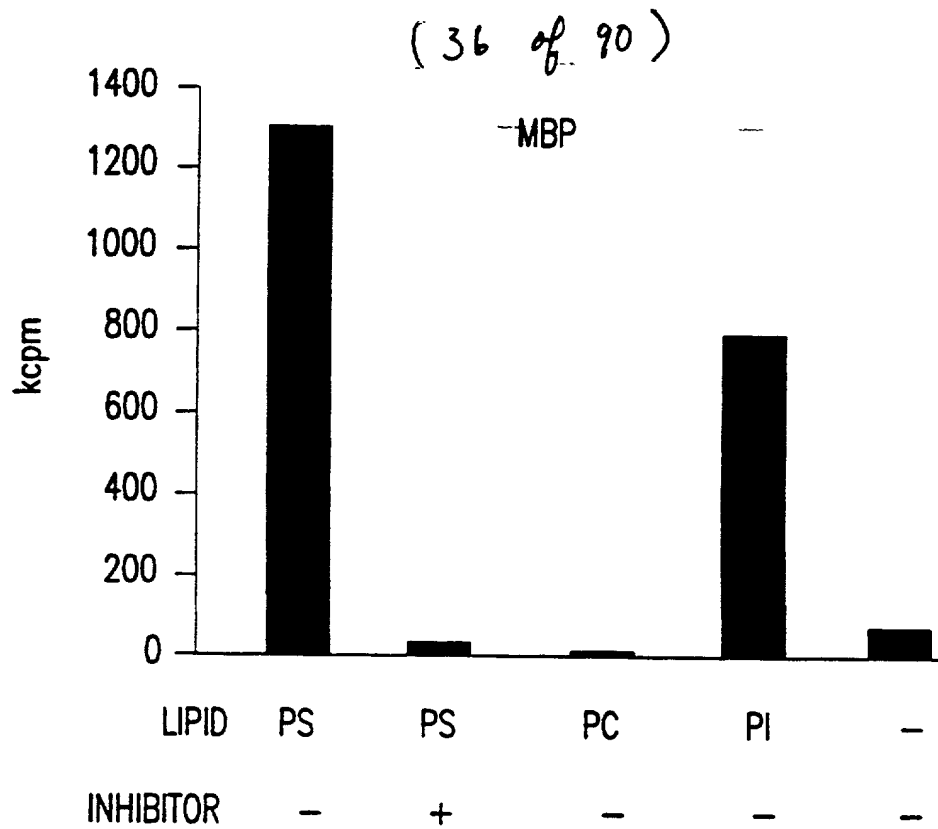


FIG.16A

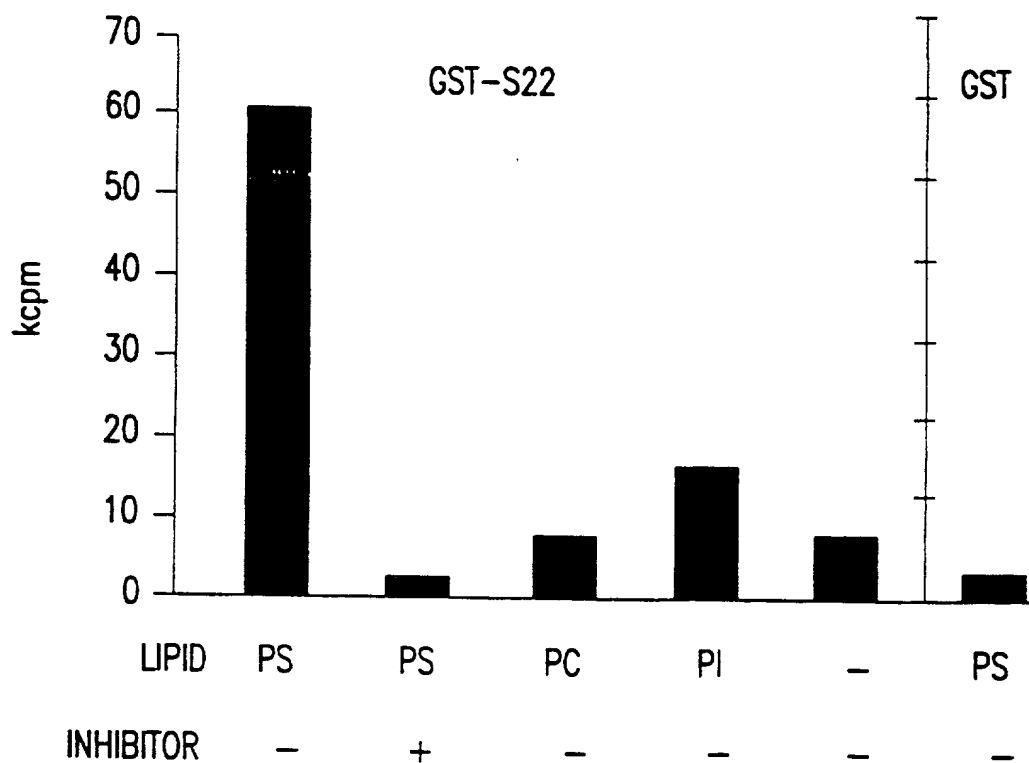


FIG.16B

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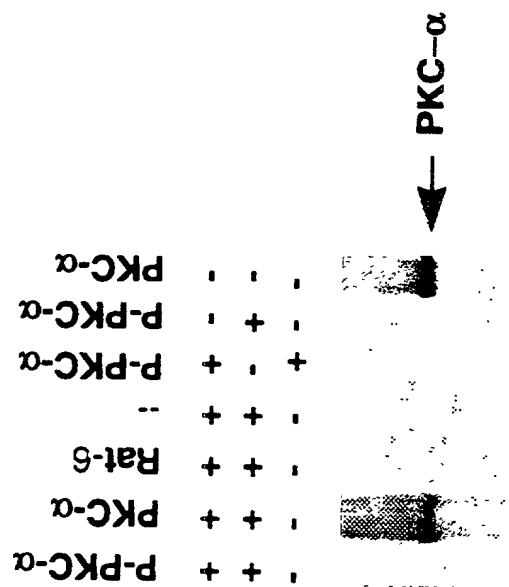


FIG.17A

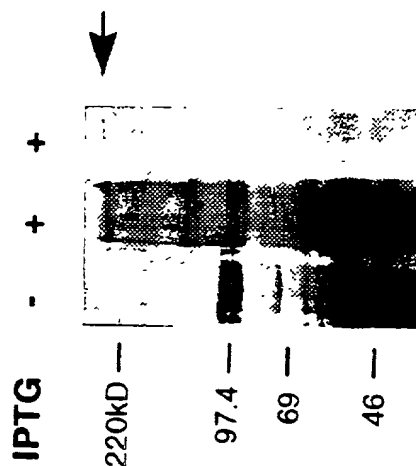


FIG.17B

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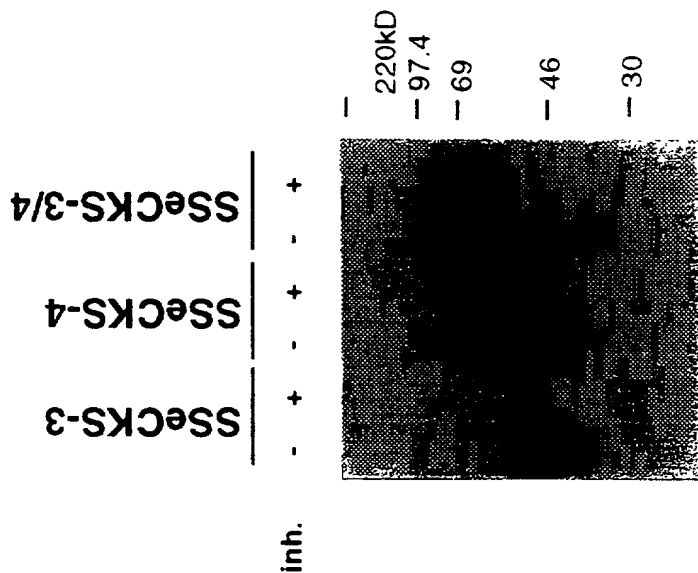


FIG.18B

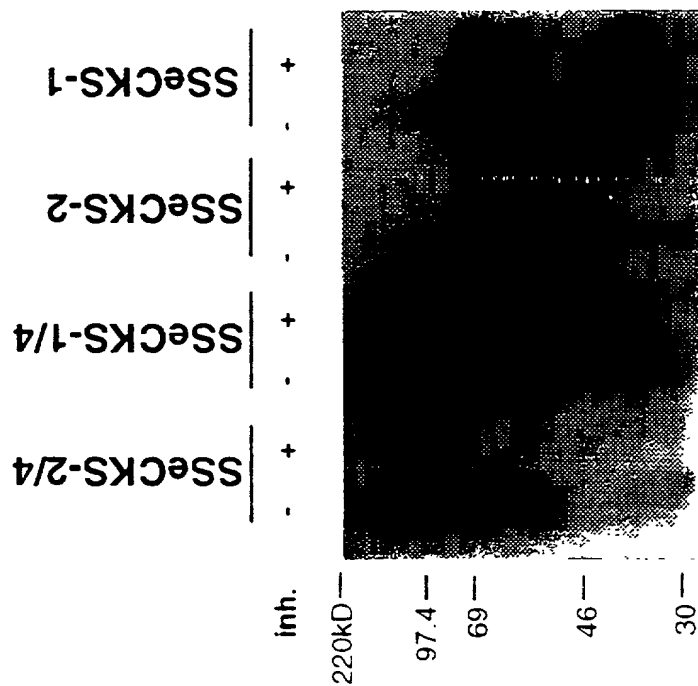
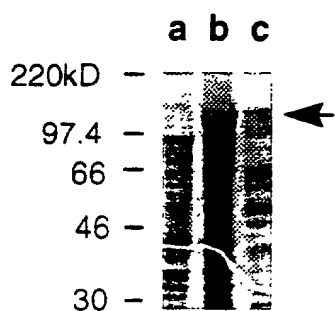


FIG.18A

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SSeCKS-2/4

FIG.18C



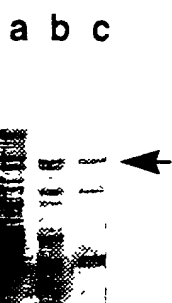
SSeCKS-1/4

FIG.18D



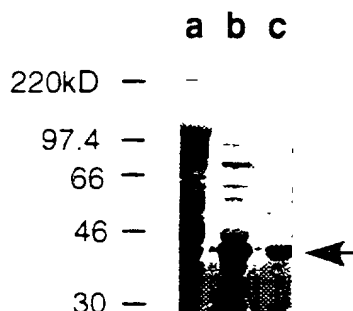
SSeCKS-2

FIG.18E



SSeCKS-1

FIG.18F



SSeCKS-3

FIG.18G



SSeCKS-4

FIG.18H



SSeCKS-3/4

FIG.18I

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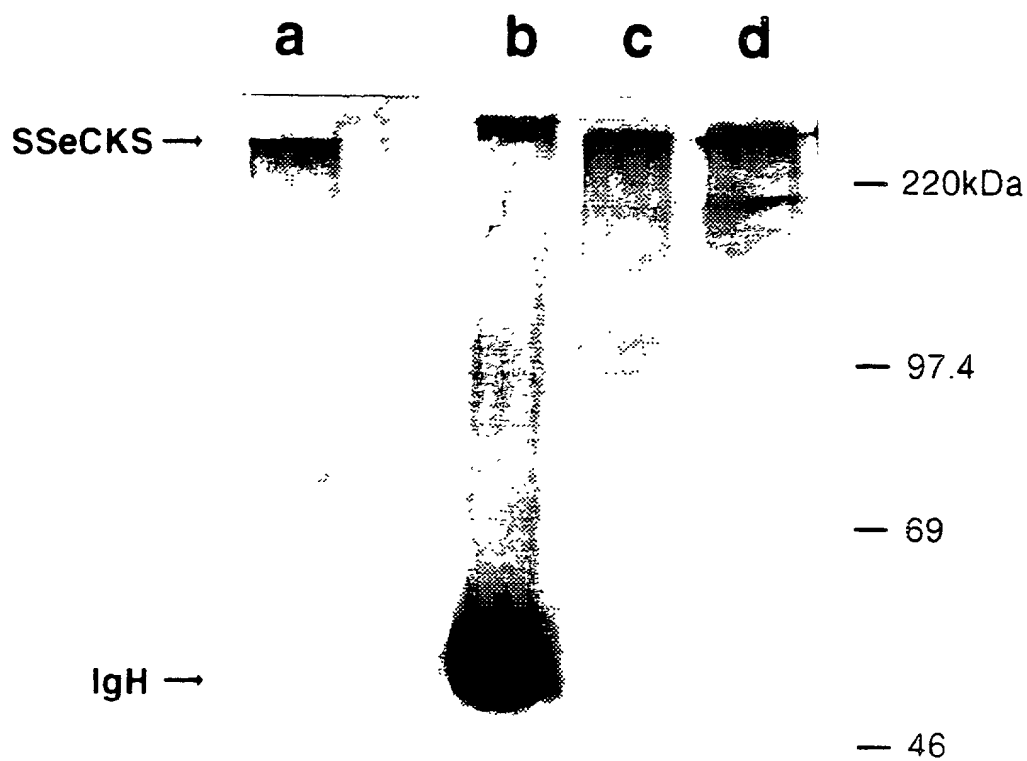


FIG.19



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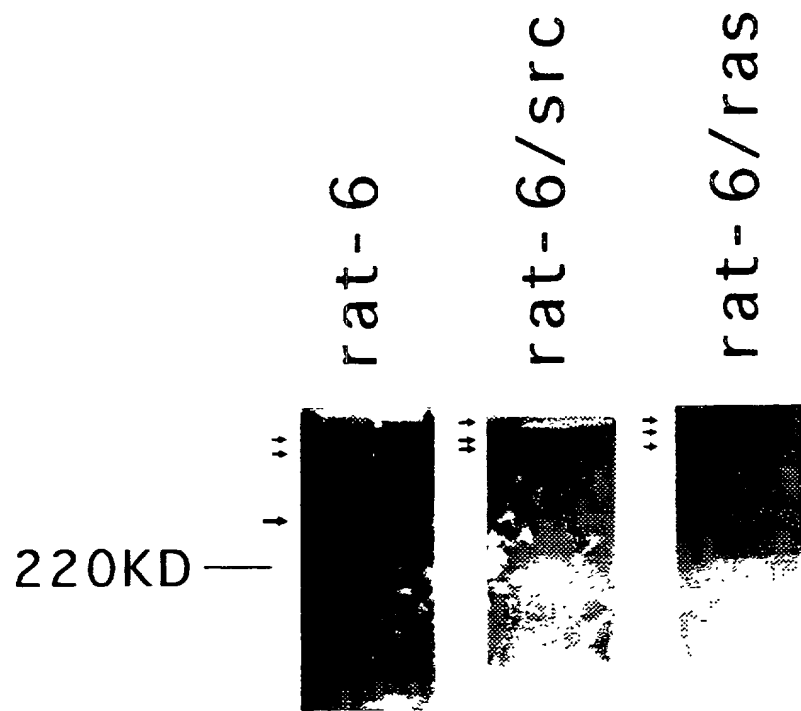


FIG.20

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FIG. 21A



FIG. 21B



FIG. 21C



FIG. 21D



FIG. 21E



FIG. 21F



FIG. 21G



FIG. 21H



FIG. 21I



FIG. 21J

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# Rat-6/PKC $\alpha$ Rat-6

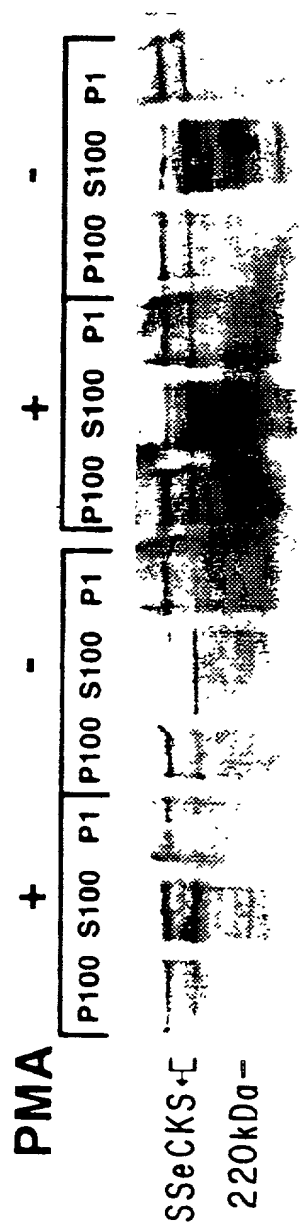


FIG.22

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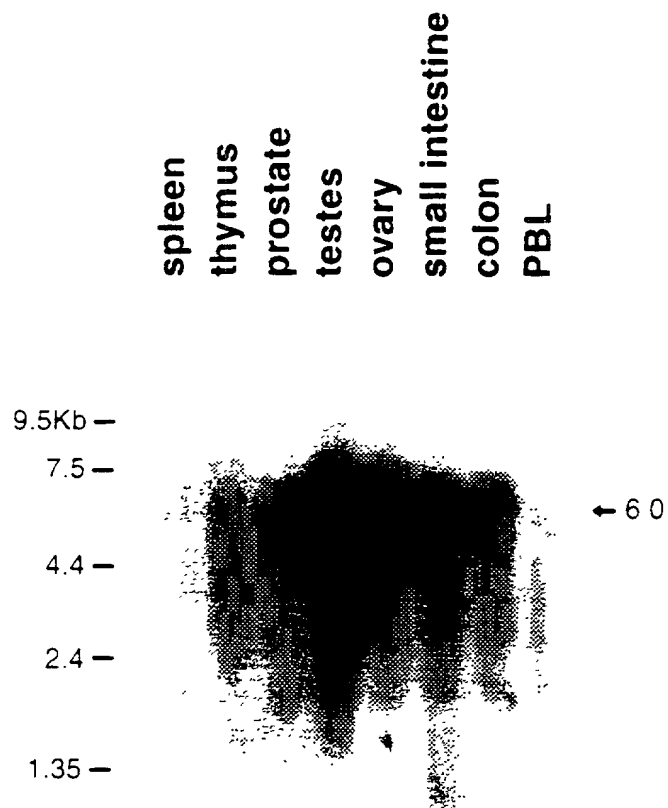


FIG.23A

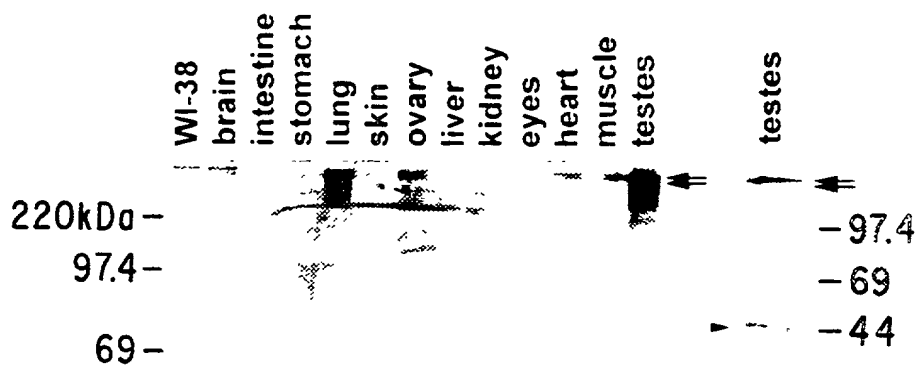


FIG.23B

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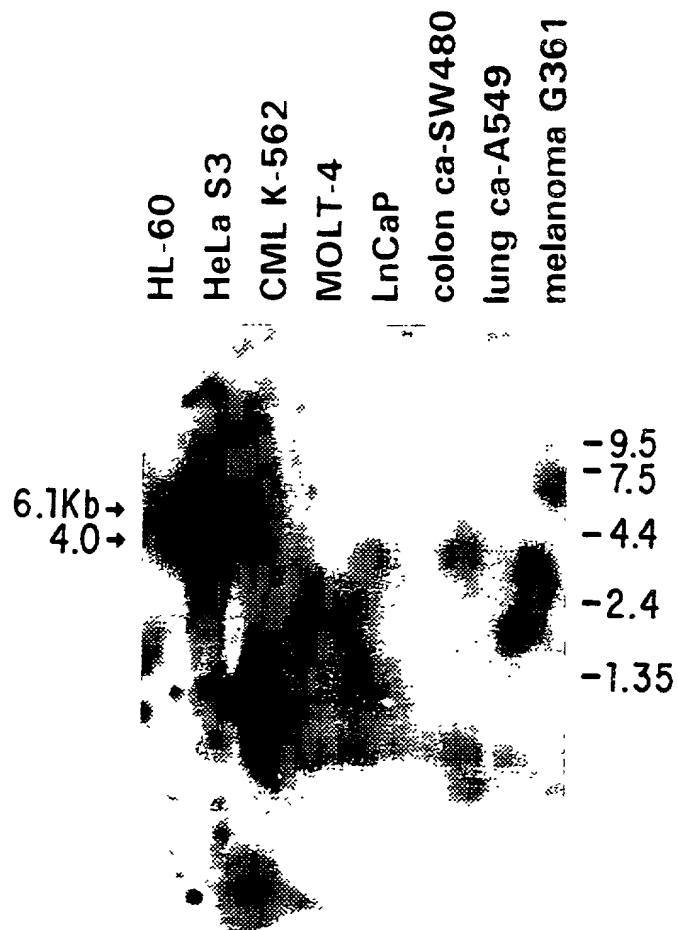


FIG.24

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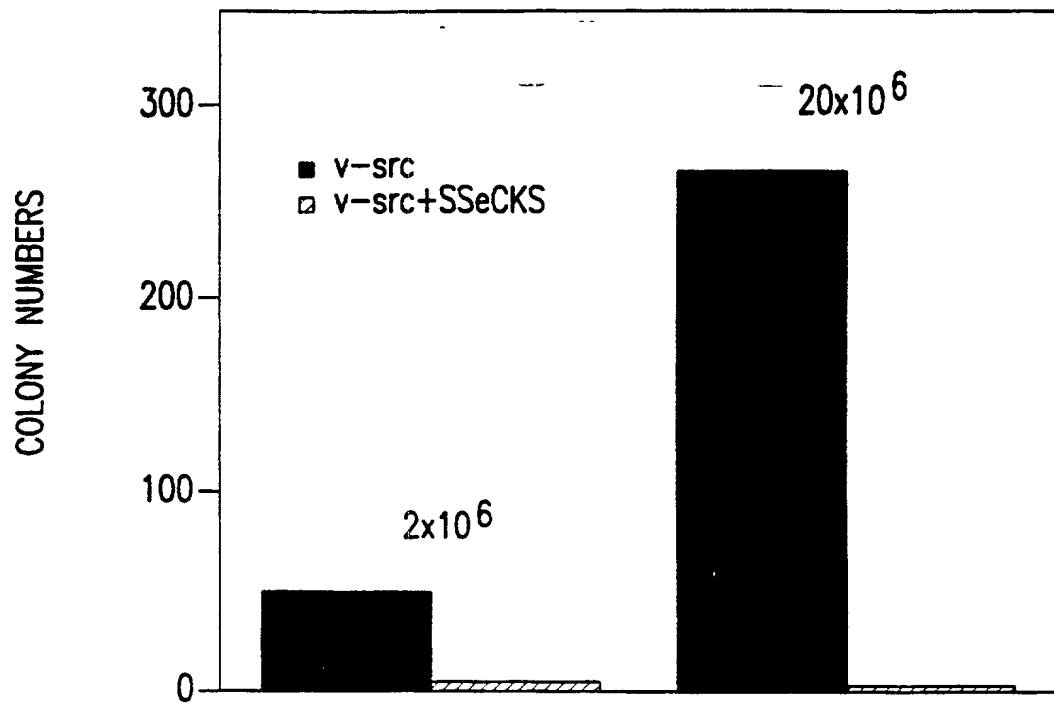


FIG.25A

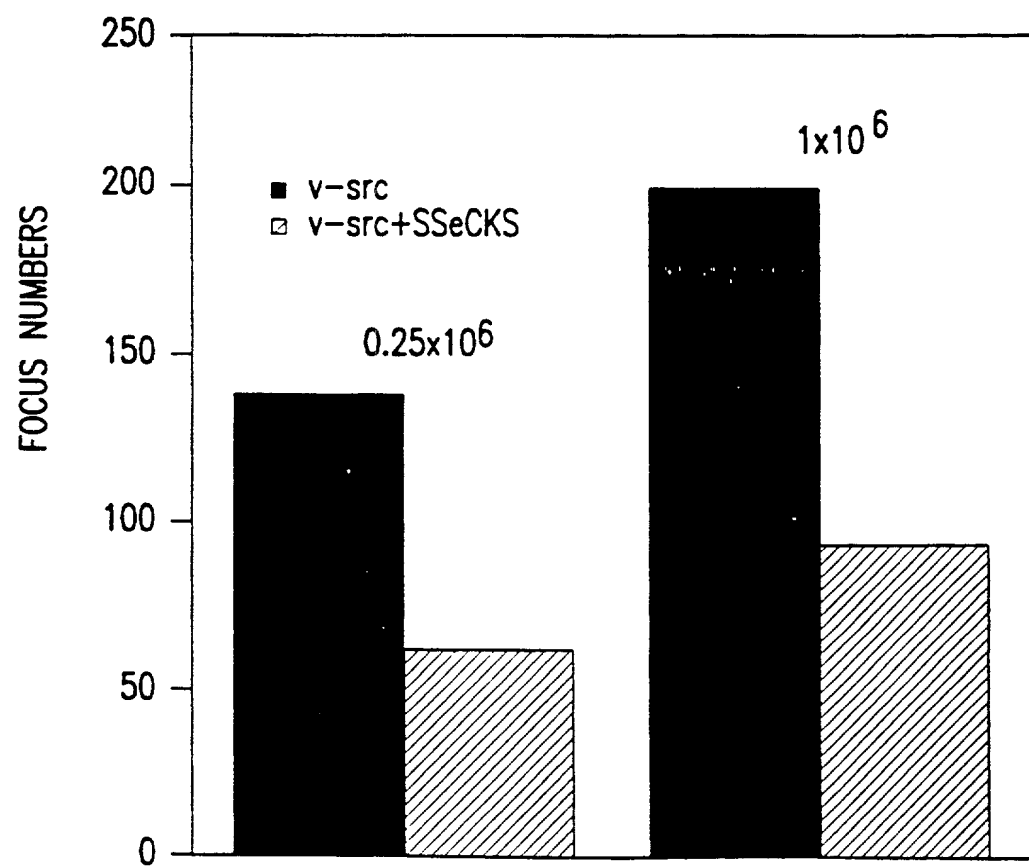


FIG.25B

FOOT 20-242066

1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	100	100
98	100	100	100
99	100	100	100
100	100	100	100

FIG.26

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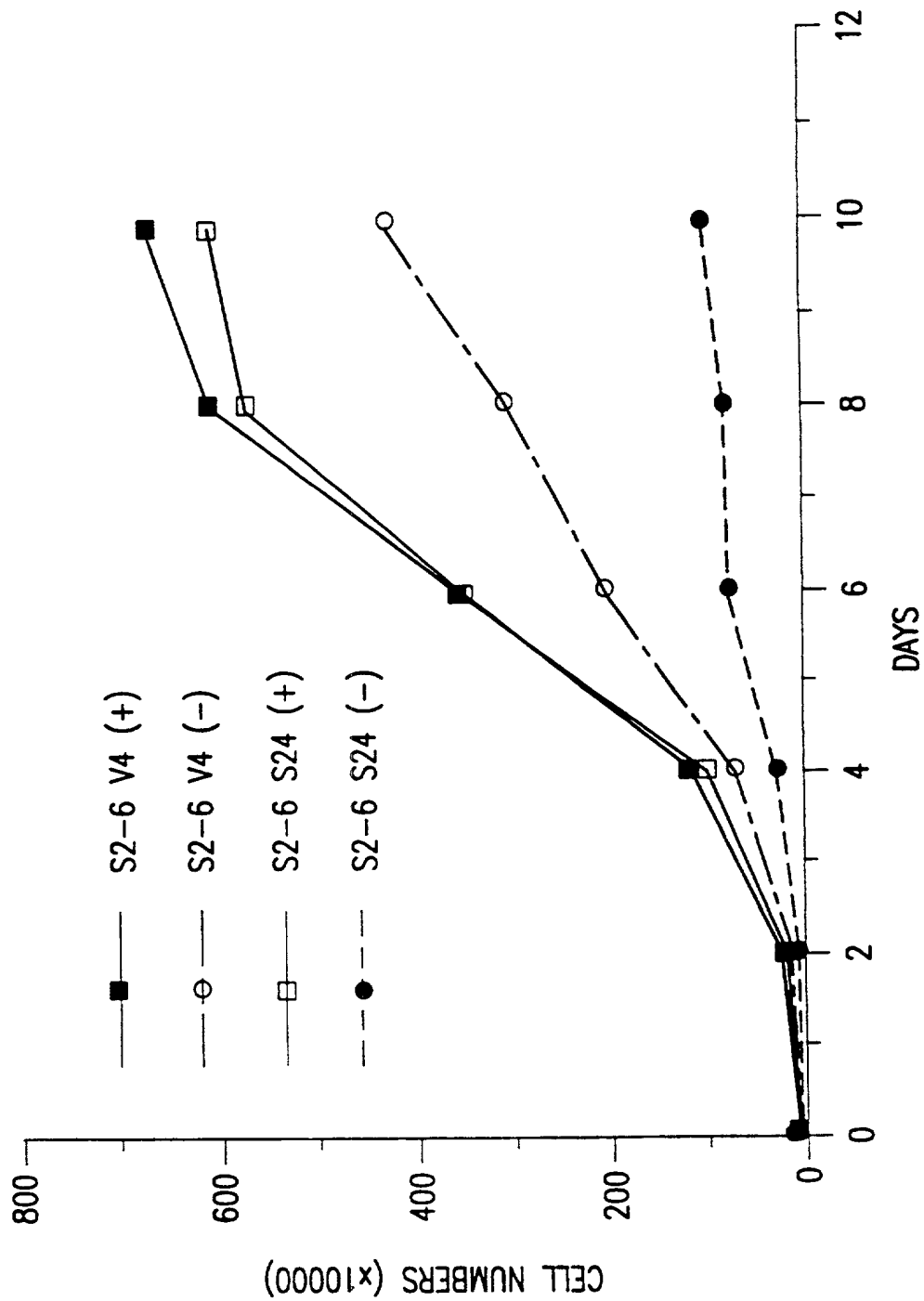


FIG.27



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Tet + -



-220kDa

FIG.28

FOOT 20" 2E420660

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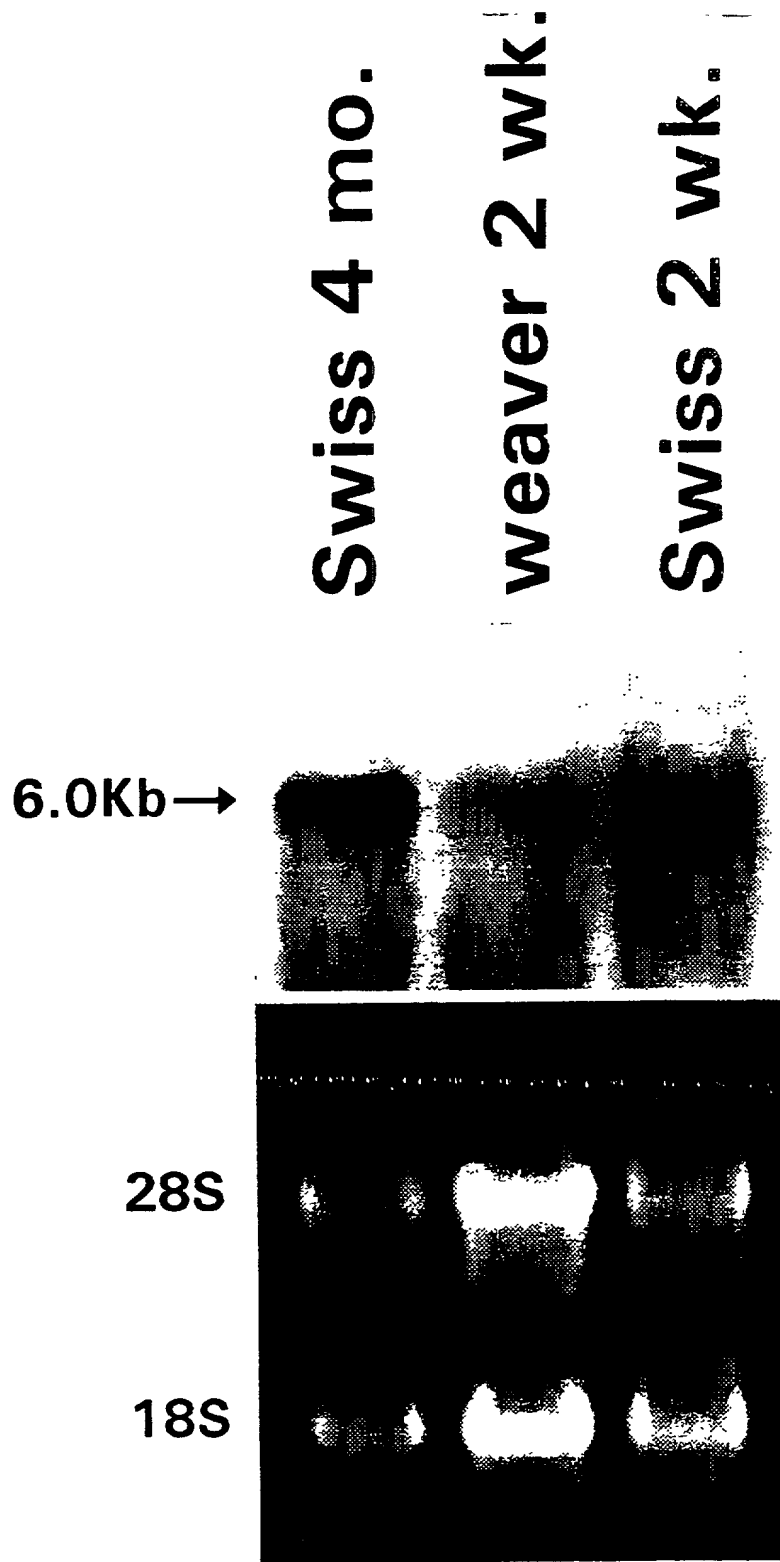


FIG.29

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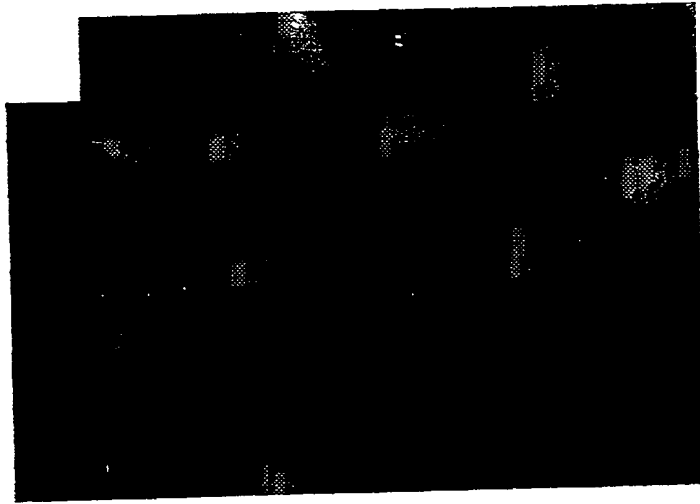


FIG. 30A

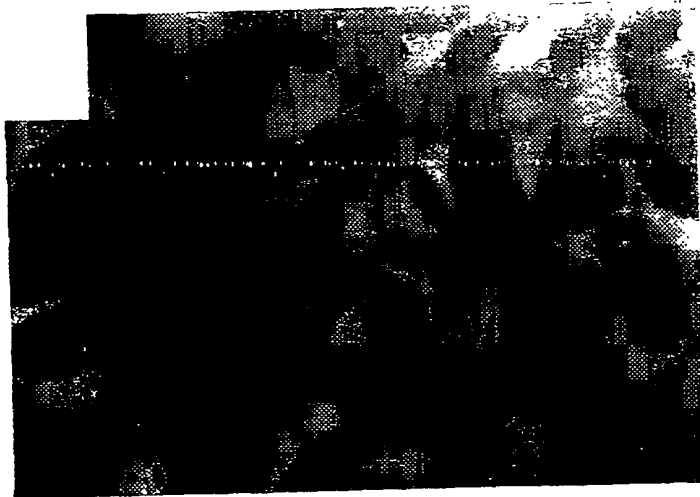


FIG. 30B

2025-04-20 10:00:00

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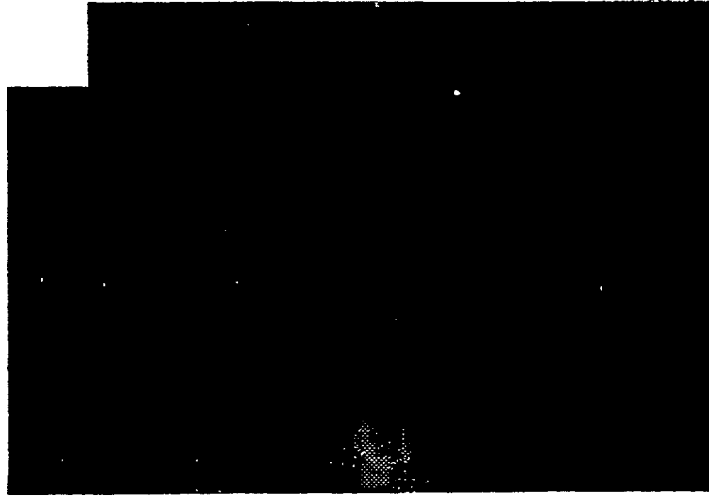


FIG.30C



FIG.30D

09902438-071001

(53 of 90)



FIG.31A



FIG.31B

0000423 071001

(54 of 90)



FIG.31C

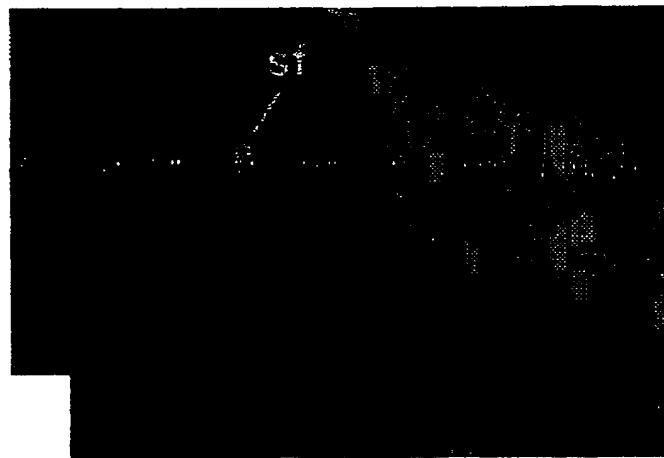


FIG.31D

2007-20-26420660



FIG. 32A

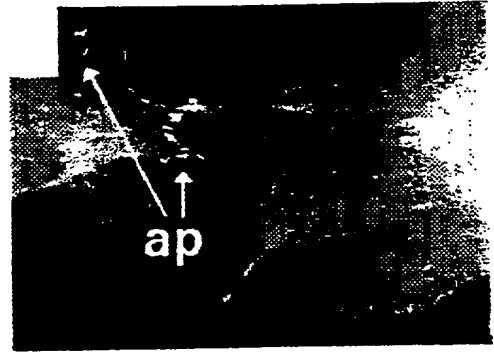


FIG. 32B

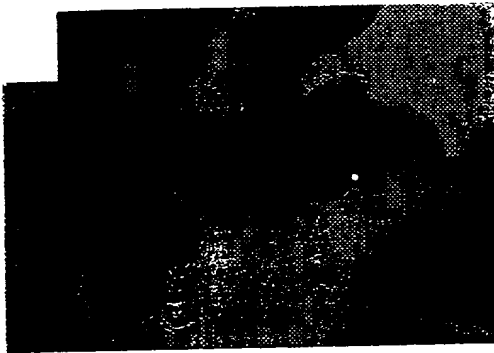


FIG. 32C

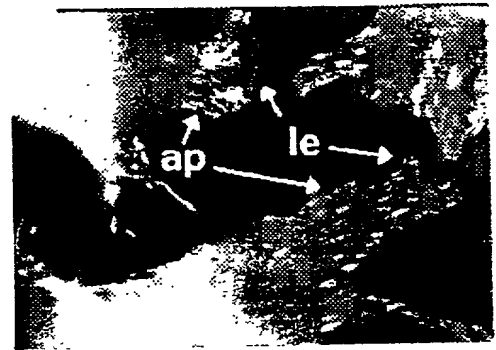


FIG. 32D

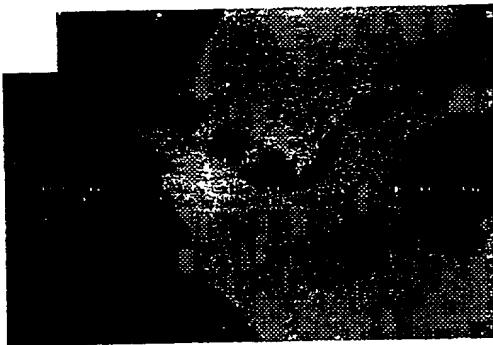


FIG. 32E



FIG. 32F

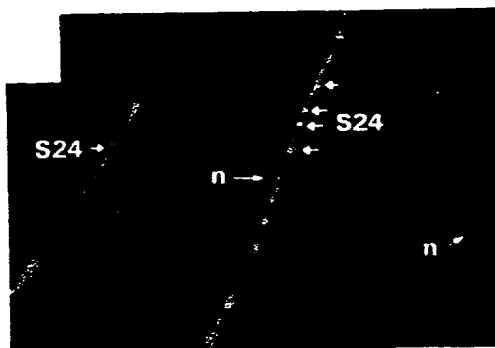


FIG. 32G



FIG. 32H

0000433-074004

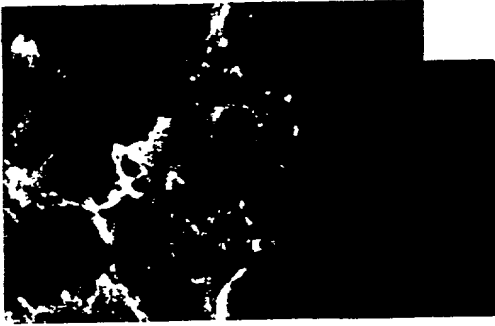


FIG. 33A



FIG. 33B



FIG. 33C



FIG. 33D



FIG. 33E

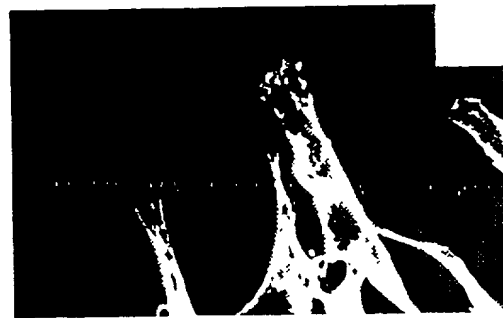


FIG. 33F



FIG. 33G



FIG. 33H

2025-04-20 10:00:00



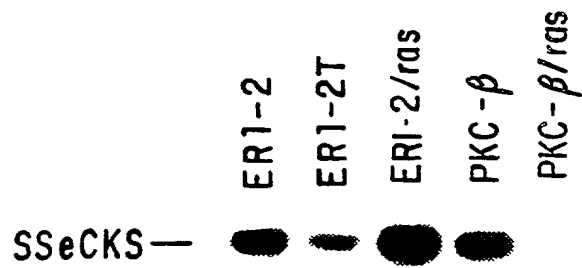


FIG.34

( 58 of 90 )

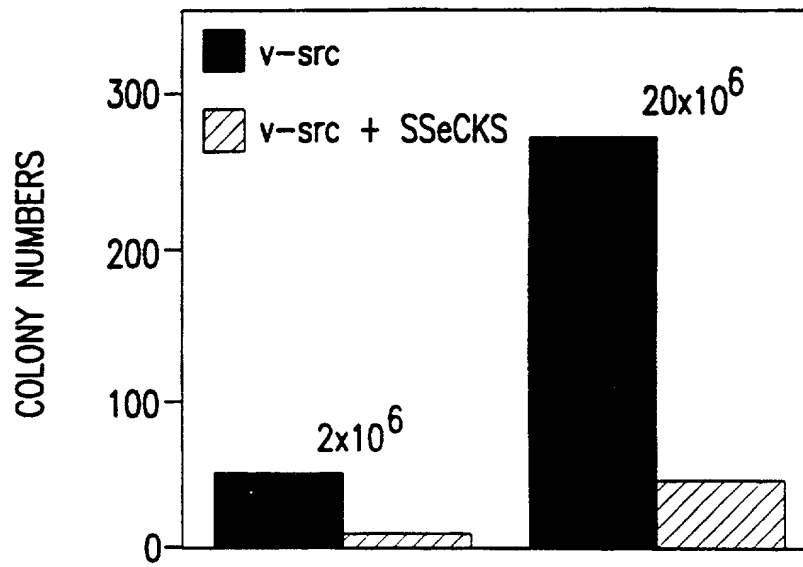


FIG.35A

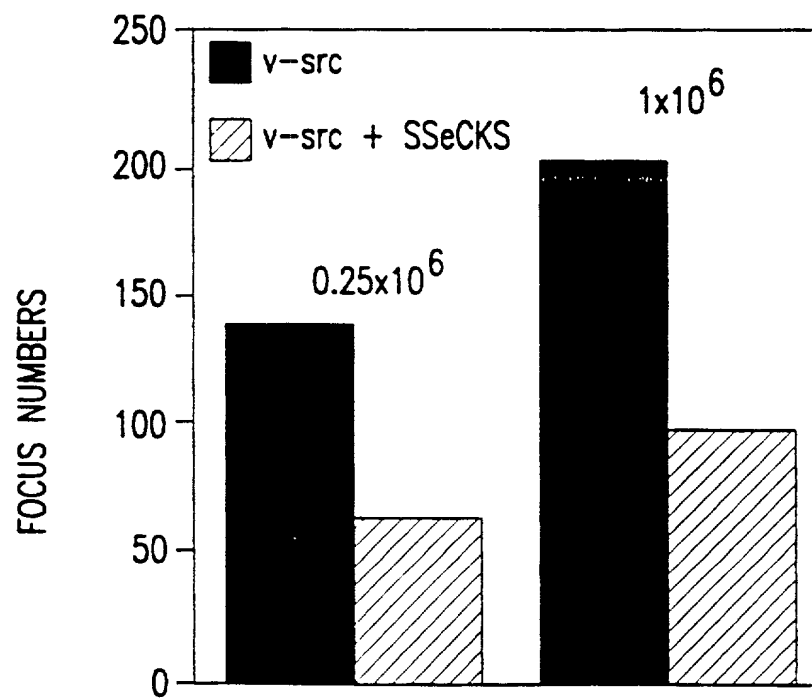
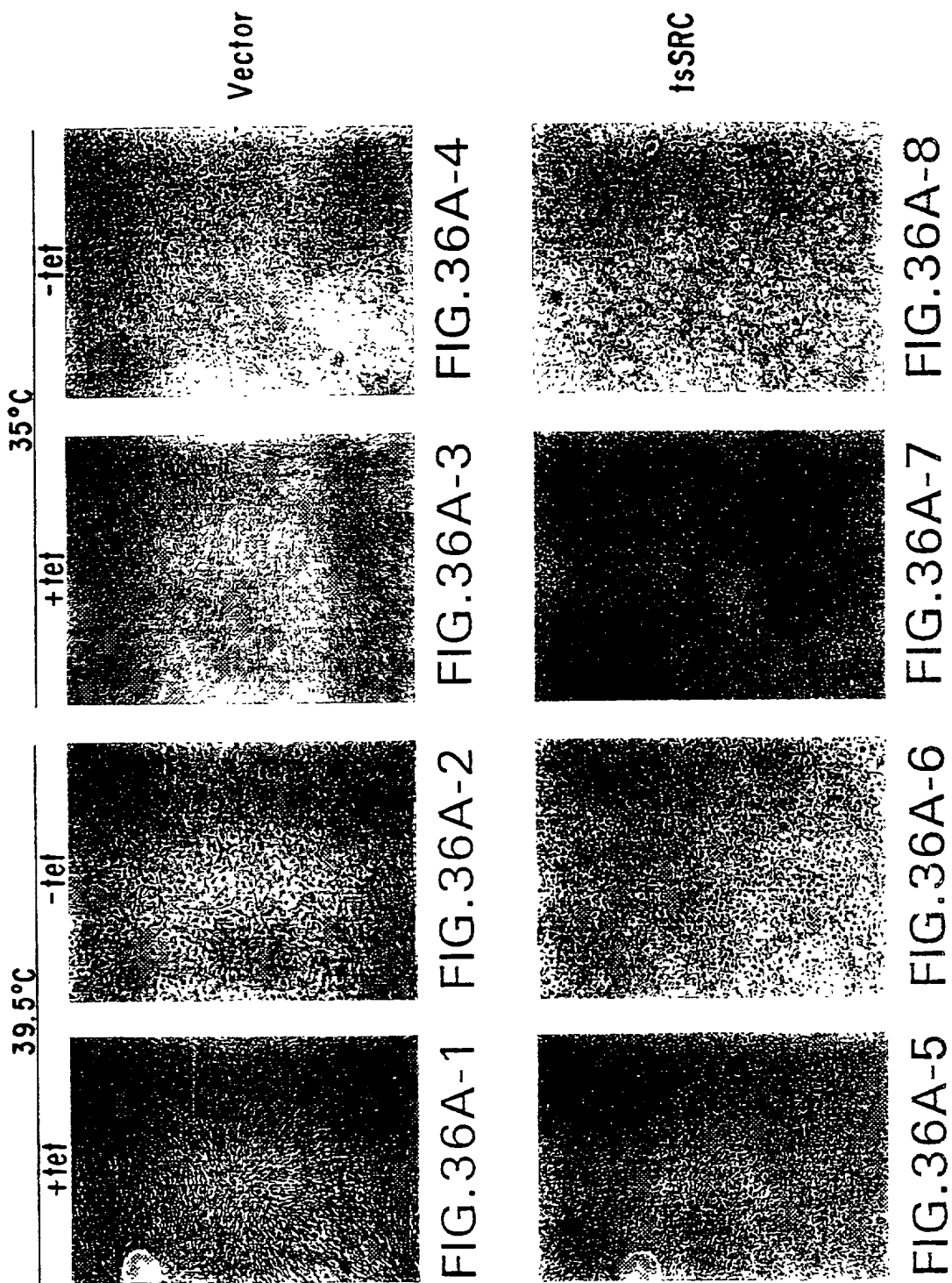


FIG.35B



( 60 of 90 )

35°C

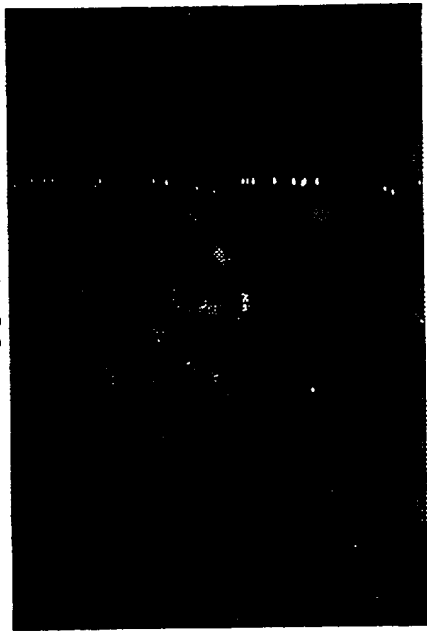


FIG.36B-1

39.5°C

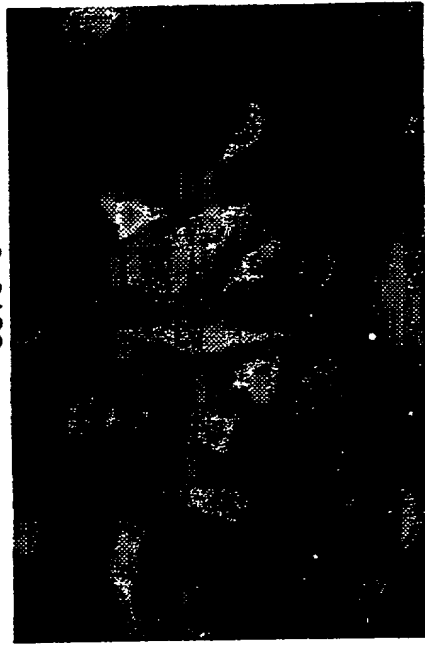


FIG.36B-2

+tet



FIG.36B-3



FIG.36B-4

-tet

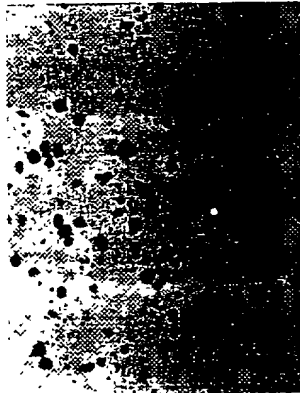


FIG.37A-1



FIG.37A-2



FIG.37A-3



FIG.37A-4

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SOFT AGAR COLONY FORMATION						
	ts src1	ts src2	ts src3	ts src4	pLJ2	pLJ3
+ tet	2160	1640	2800	1080	0	0
- tet	60	60	110	35	0	0

FIG.37B

(63 of 90)

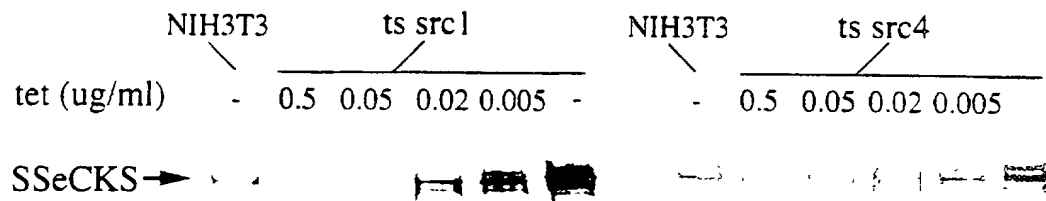


FIG.38A

0.5ug/ml tet



FIG.38C-1

0.02ug/ml tet



FIG.38C-2

T01T20" 2E4E20660

SOFT AGAR COLONY FORMATION					
	35°C				39°C
tet(ug/ml)	0.5	0.05	0.02	0.005	0
ts src1	2852	2464	174	51	22
ts src4	1463	743	67	11	0

FIG.38B



(65 of 90)

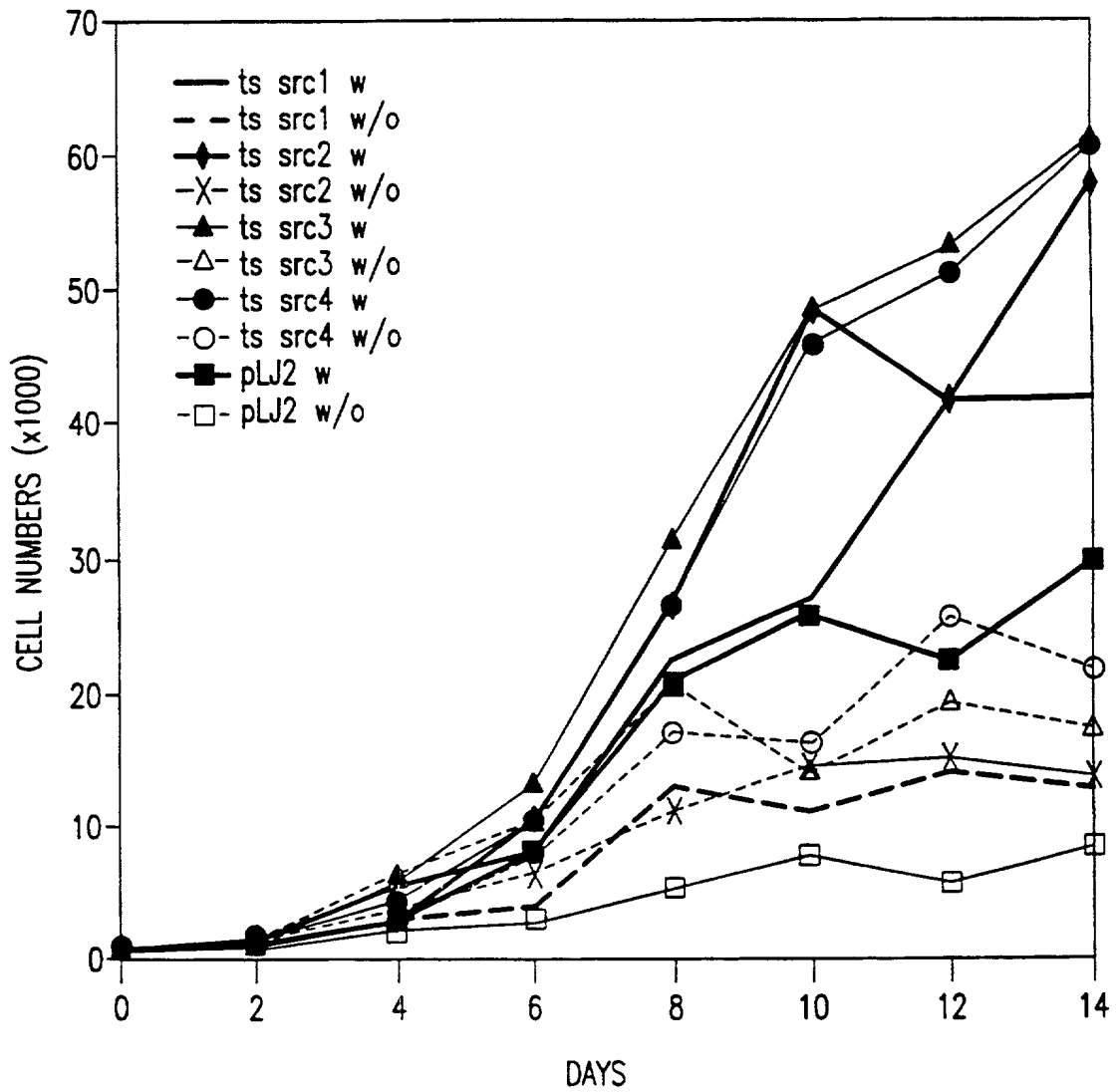


FIG.39A

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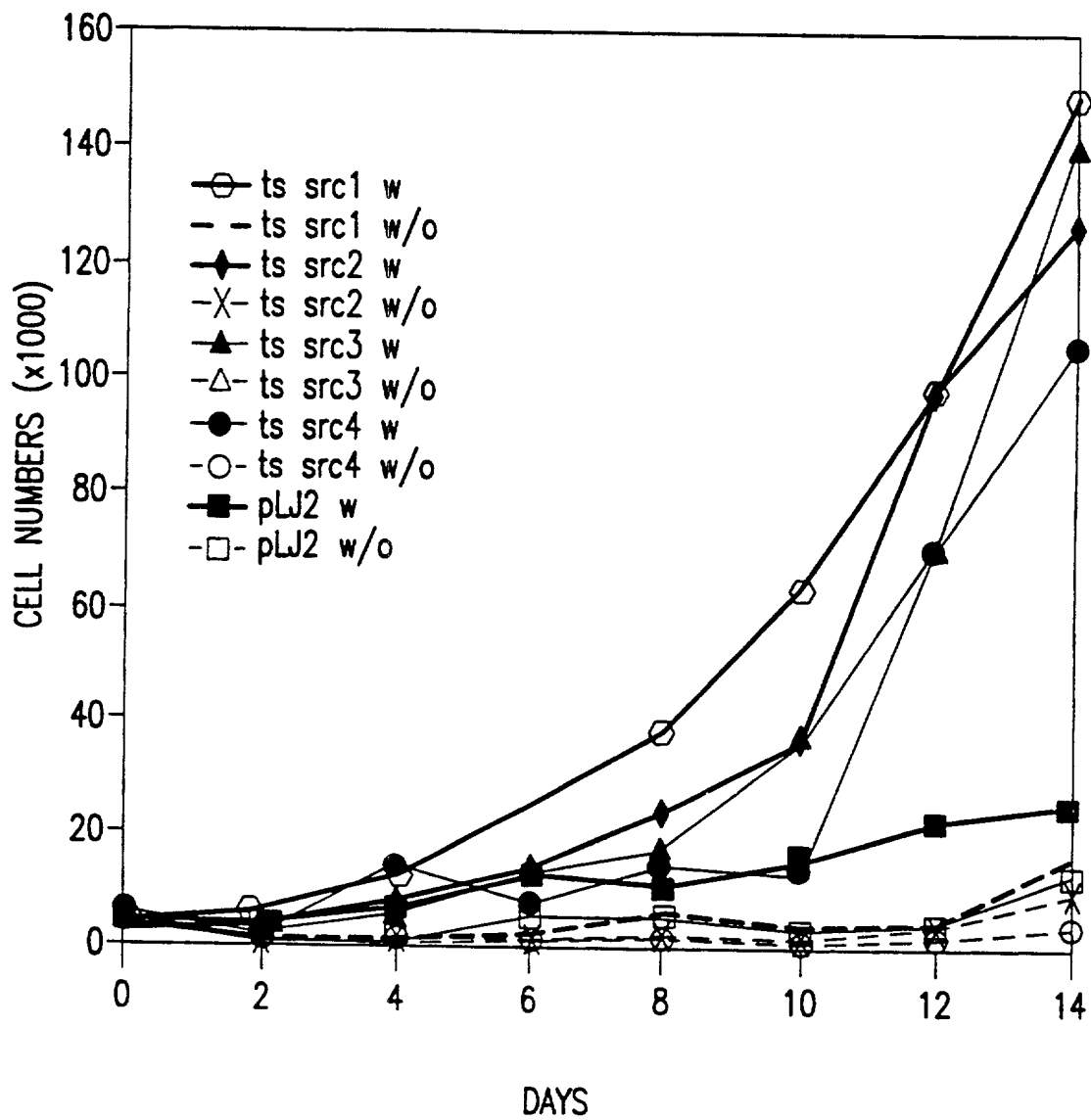


FIG.39B

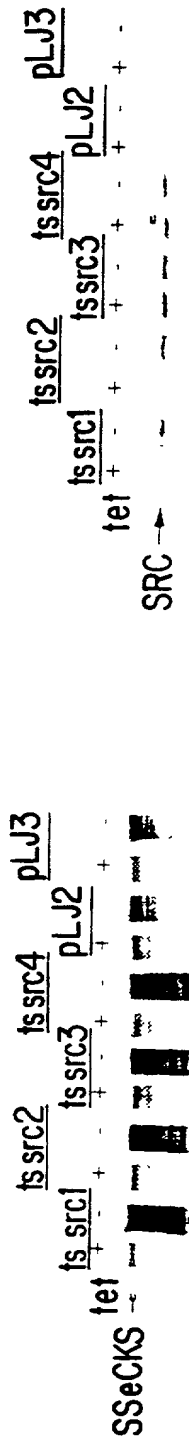


FIG. 40A

FIG. 40B



FIG. 40C-1

FIG. 40C-2

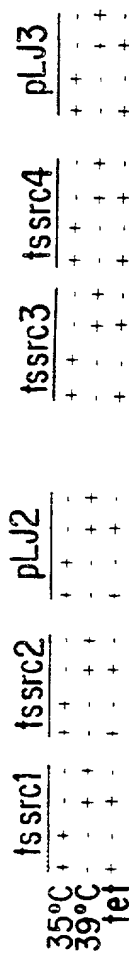


FIG. 40D-1

FIG. 40D-2

	ts src1	ts src2	pLJ2	ts src3	ts src4	pLJ3
35°C	+	+	+	+	+	+
39°C	-	-	+	-	-	-
tet	+	+	+	+	+	+

ERK2

FIG.41A-1

FIG.41A-2

	ts src1	ts src2	pLJ2	ts src3	ts src4	pLJ3
35°C	+	+	+	+	+	+
39°C	-	-	+	-	-	-
tet	+	+	+	+	+	+

FIG.41B-1

FIG.41B-2

	ts src1	ts src4	pLJ2	pLJ3	ts src4
GST-JUN	+	+	+	+	-
GST	-	-	-	-	+
tet	+	+	+	+	-

35°C

39°C

FIG.41C

(68 of 90)

(69 of 90)

SSeCKS



FIG.42A-1

Vinculin



35°C  
+tet

FIG.42A-2



FIG.42A-3



35°C  
-tet

FIG.42A-4

200120-2E120660

(70 of 90)

SSeCKS

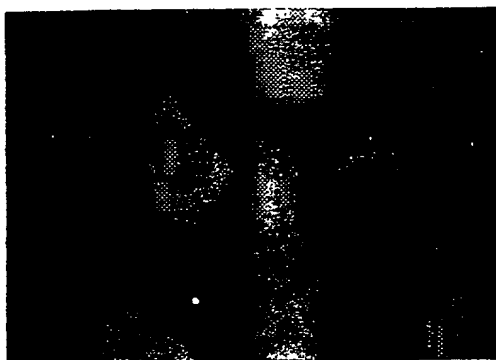


FIG.42A-5

Vinculin



39.5°C  
+tet

FIG.42A-6

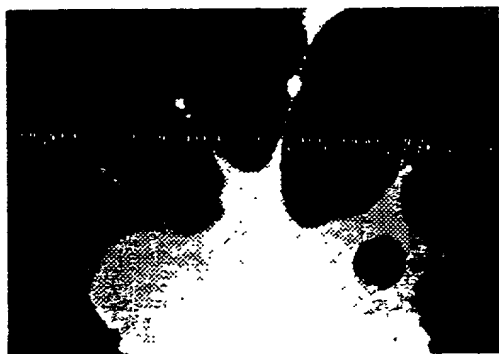
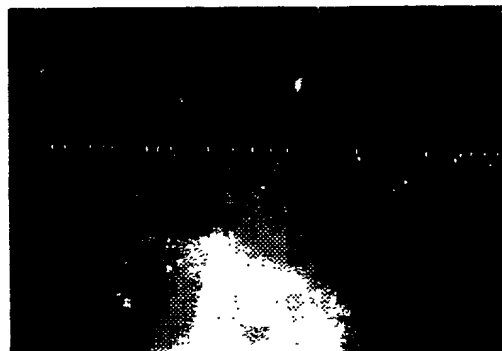


FIG.42A-7



39.5°C  
-tet

FIG.42A-8

42A-5 42A-6 42A-7 42A-8

(71 of 90)

SSeCKS

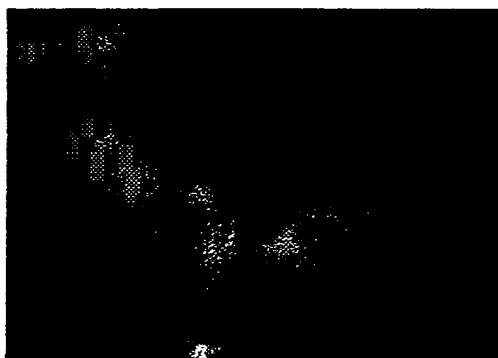


FIG.42B-1

Phalloidin

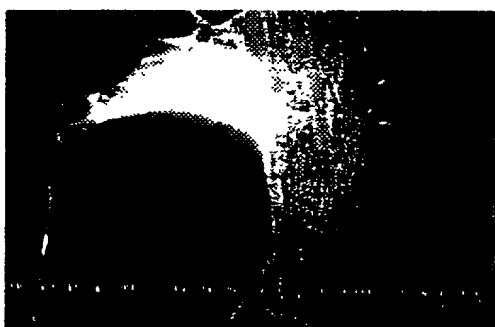


35°C  
+tet

FIG.42B-2



FIG.42B-3



35°C  
-tet

FIG.42B-4

FIG.42B-1

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SSeCKS

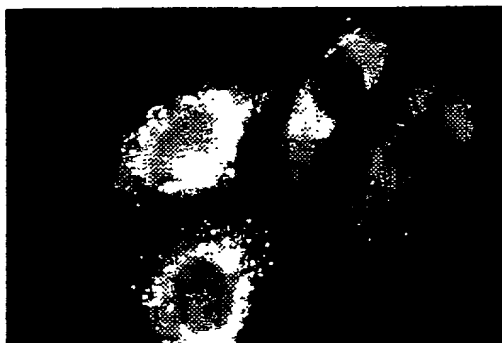


FIG.42B-5

Phalloidin



39.5°C  
+ tet

FIG.42B-6



FIG.42B-7



39.5°C  
- tet

FIG.42B-8

2004-04-20 10:20:00



# Figure 43

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FOOT 20" 26420660

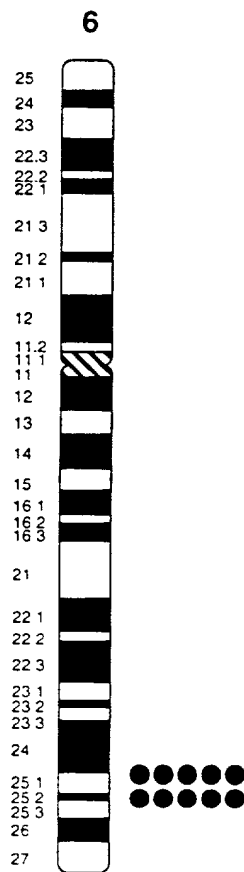
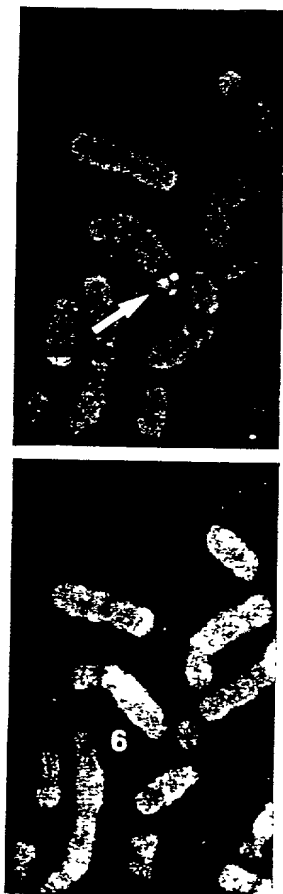


Figure 44

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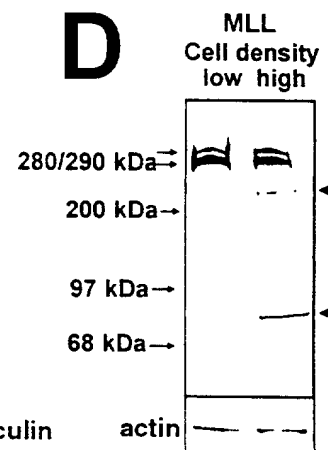
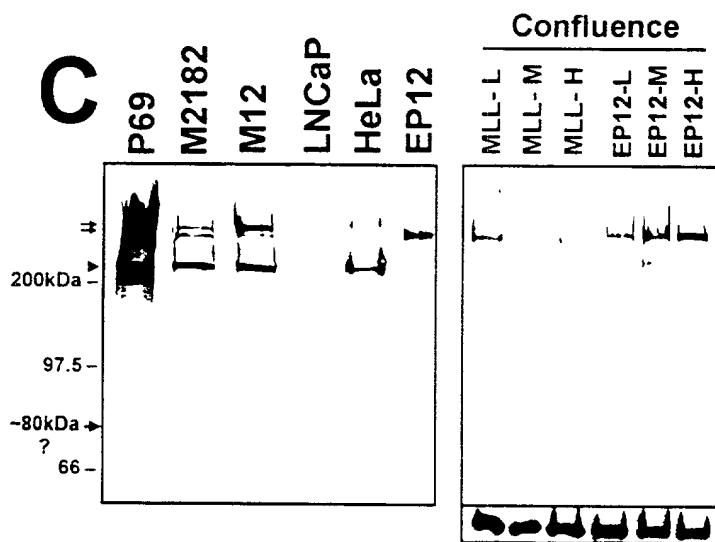
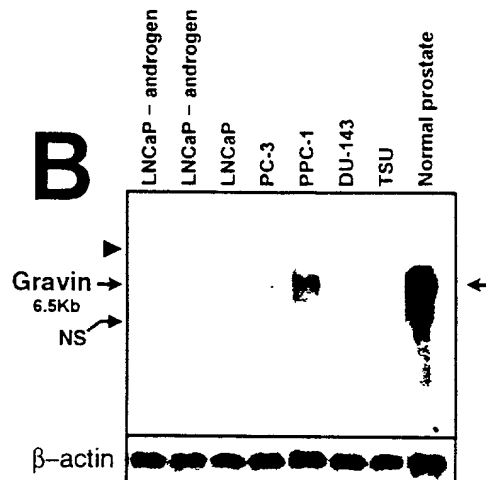
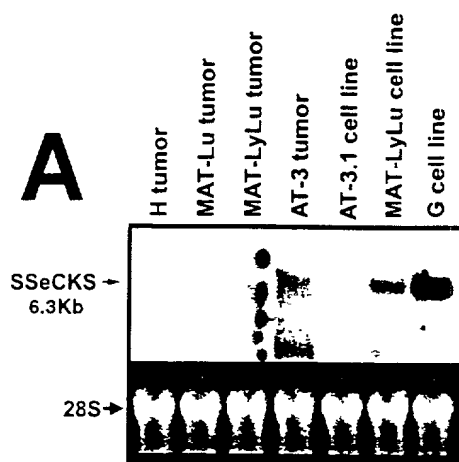
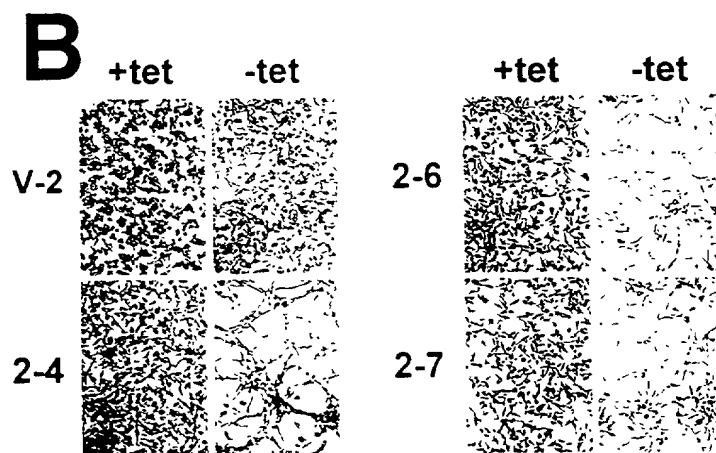
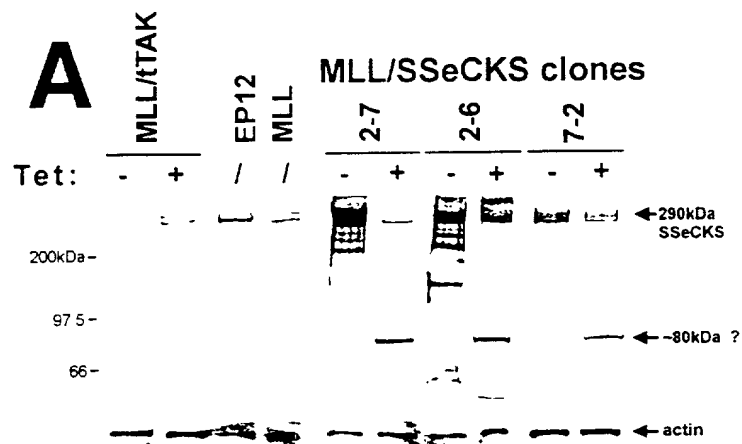


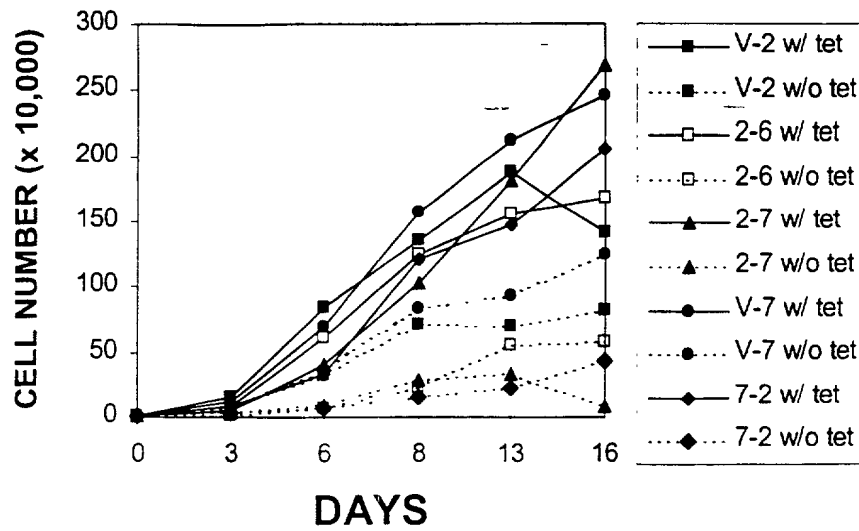
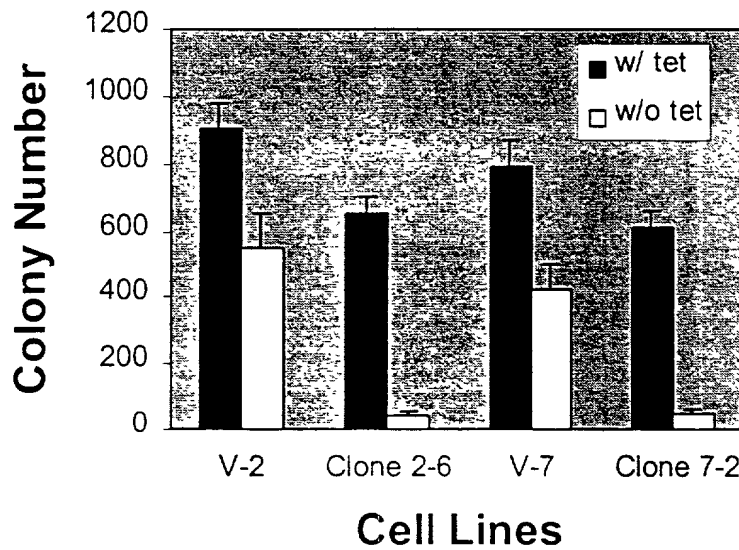
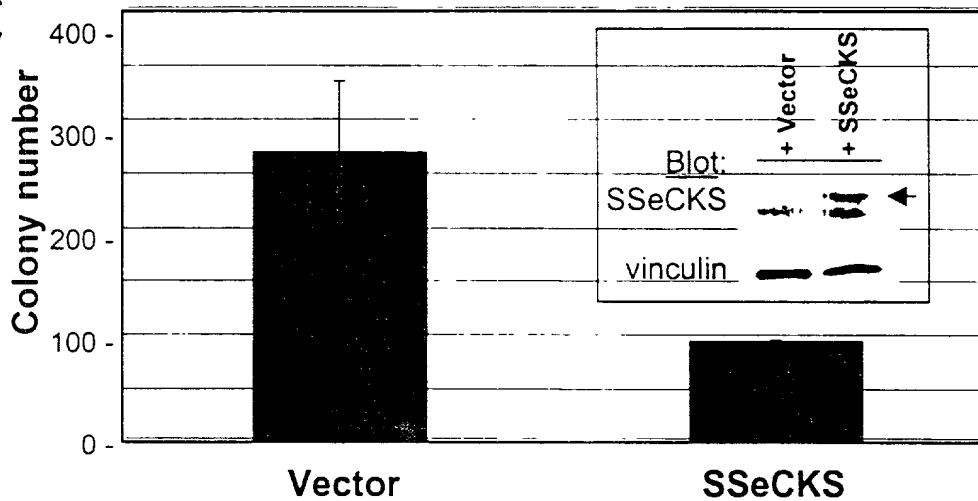
Figure 45  
(75 of 90)



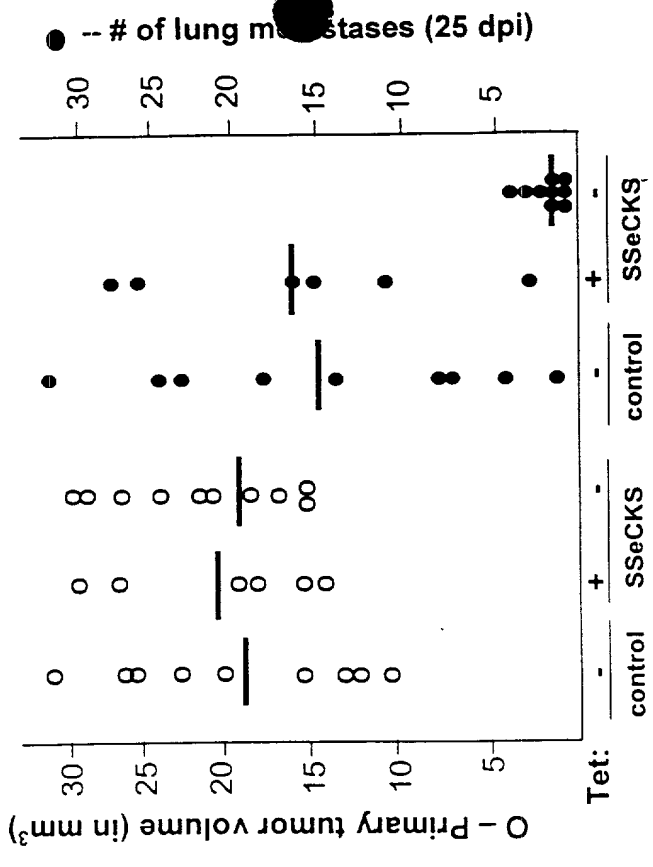
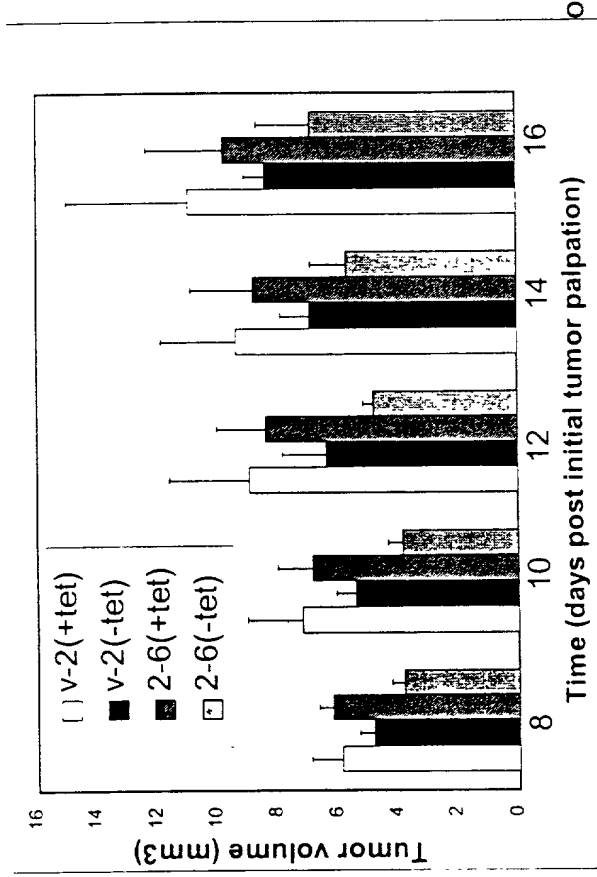
(76 of 90.)

Figure 1 consists of four panels labeled a, a', b, and b'. Panels a and b show control ommatidia with a large, bright central cone cell. Panels a' and b' show ommatidia from a mutant fly, where the central cone cell is severely reduced in size. Scale bars are visible in panels a and b.

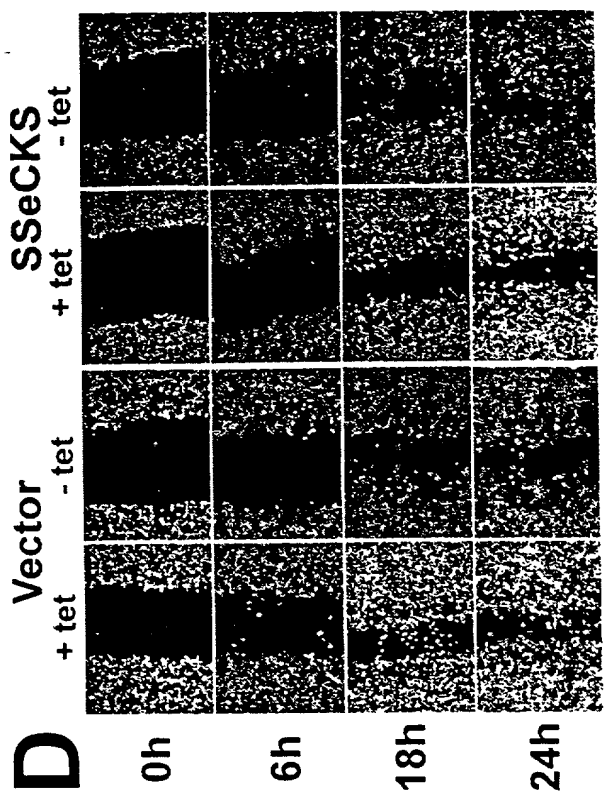
Figure 1 consists of six panels (a-f) showing fluorescence micrographs of Drosophila ommatidia. Panels a and b show single ommatidia with a central cone cell (bright) and surrounding photoreceptors (faint). Panels c, d, e, and f show clusters of ommatidia. Scale bars are present in panels a and c.

**A****B****C**

**A**



**D**



**C**

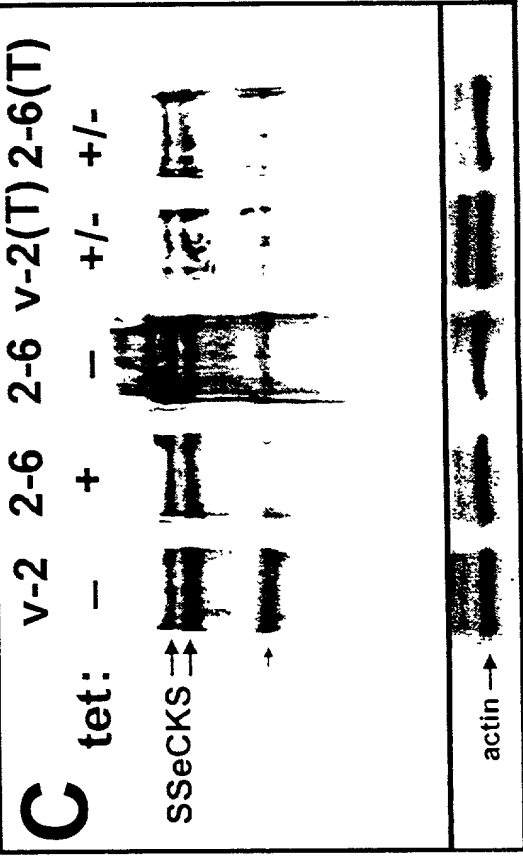
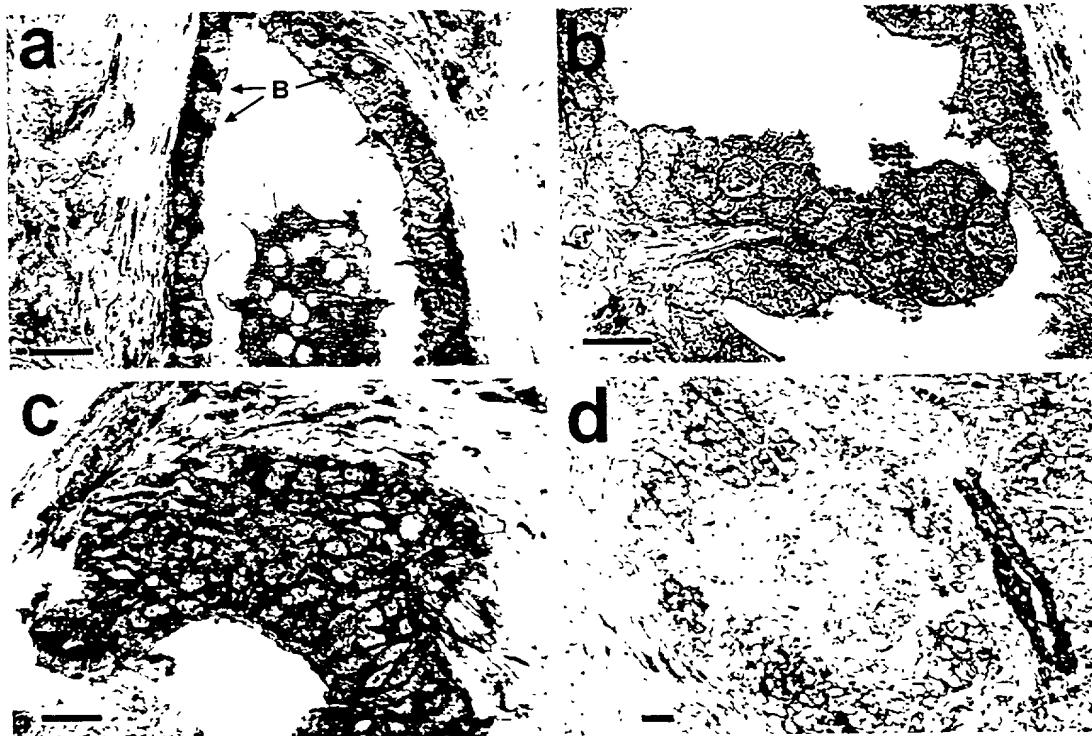
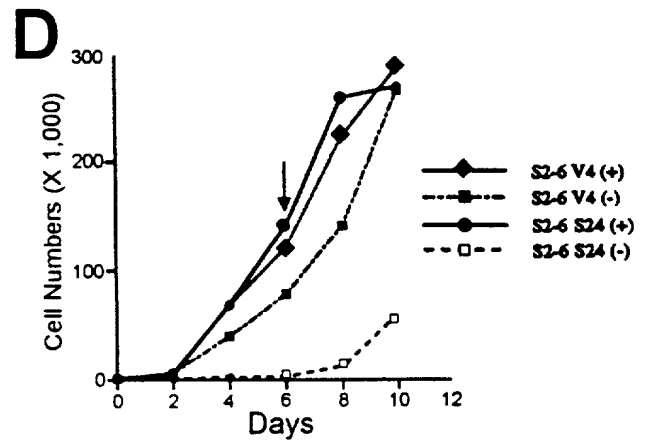
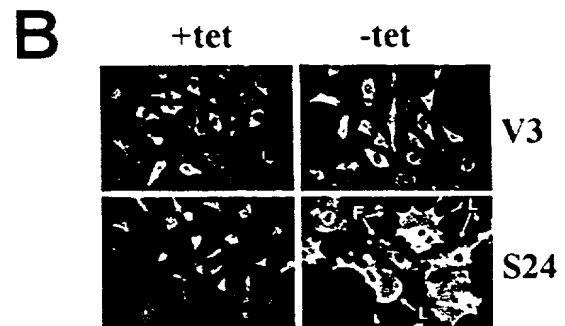
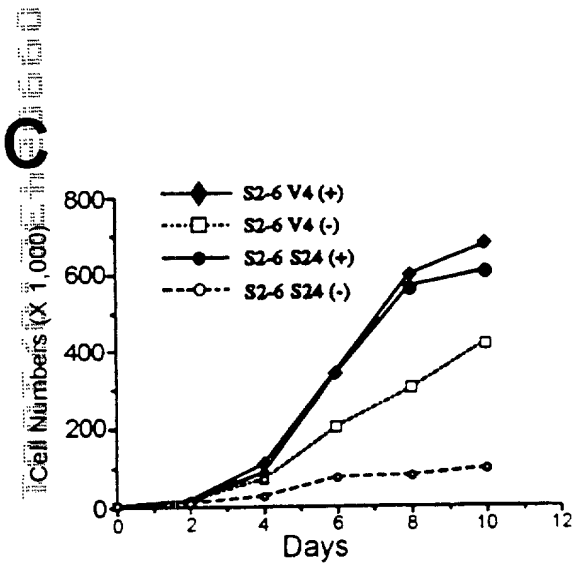
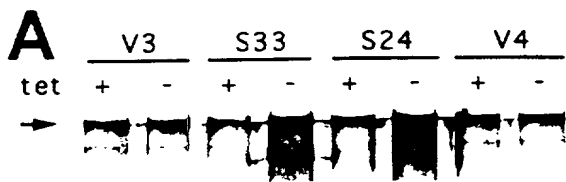


Figure 49  
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000043-074001

Figure 50  
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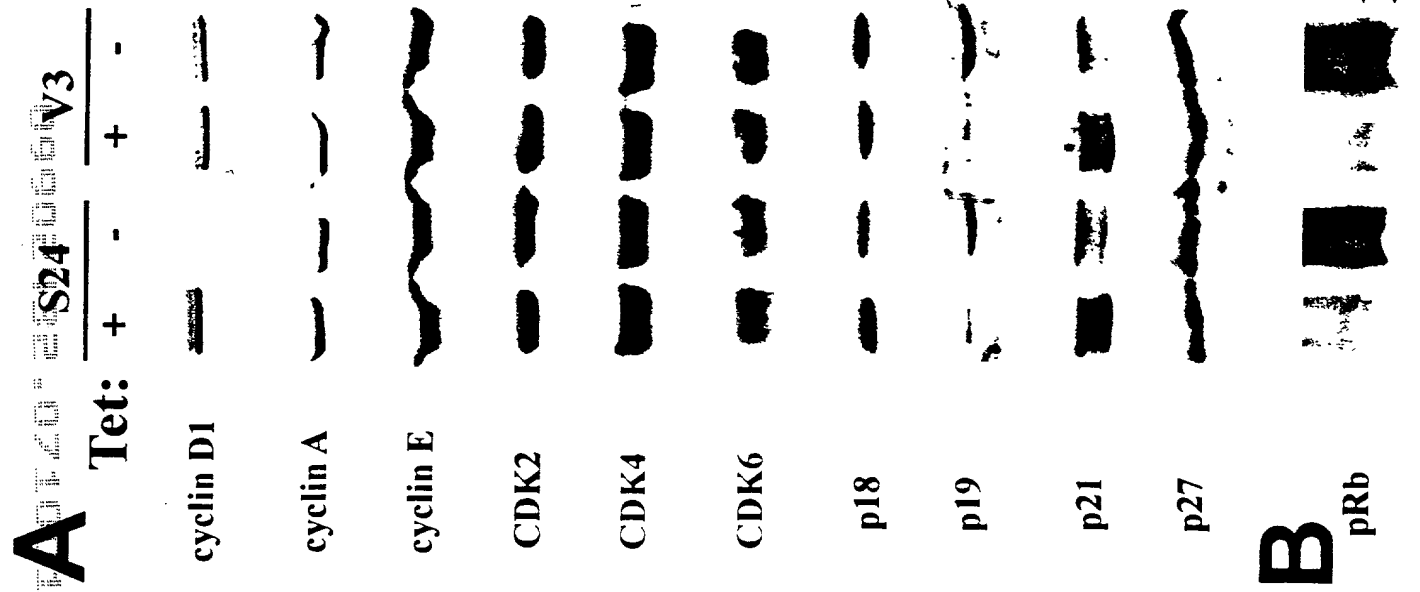


Figure 52

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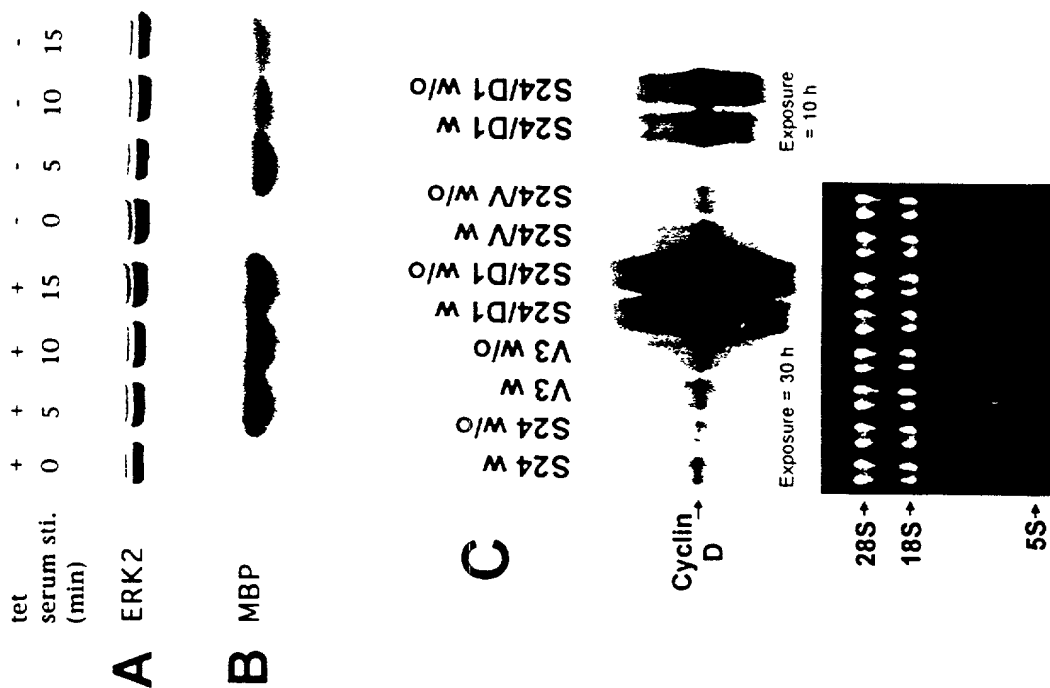
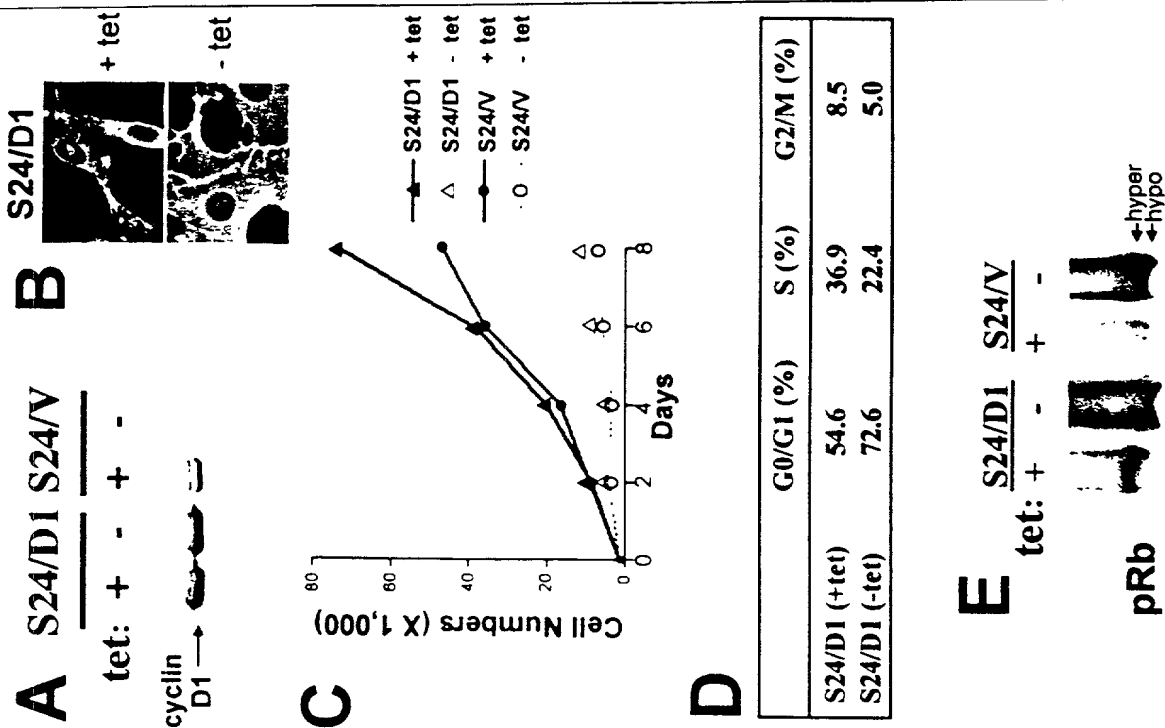


Figure 53

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**SSeCKS**      <sup>468</sup>SPEEKTLPKHPEGIVSEVM      LSSQERIK<sub>496</sub>  
 ||    |: ||||:|    ||| ||:|

**Newt pRb**    <sup>780</sup>SP.LKSPYKHPEGLLSPTKM - (27 a.a.) - LSSSERLR<sub>834</sub>

[illegible]

**A**

S24/D1  
(+tet)



S24/D1  
(-tet)



V3/D1  
(+tet)



V3/D1  
(-tet)



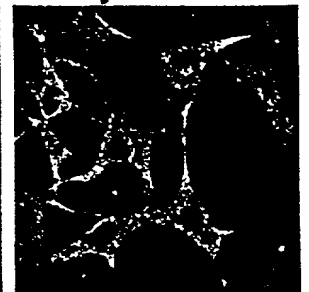
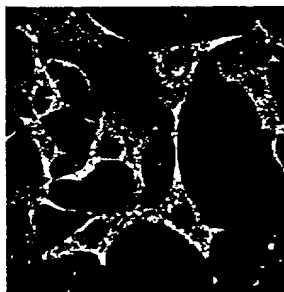
**B**

SSeCKS

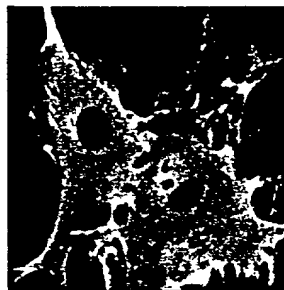
cyclin D1

SSeCKS +  
cyclin D1

+ tet



- tet



**C**

- tet



(86 of 90)

FOOT 20 23120660

Figure 57

(87 of 90)

**A**

	S24/D1	S24/N
tet (µg/ml):	0.5 0.02 0	0.5 0.02 0
SSeCKS		

D1 →

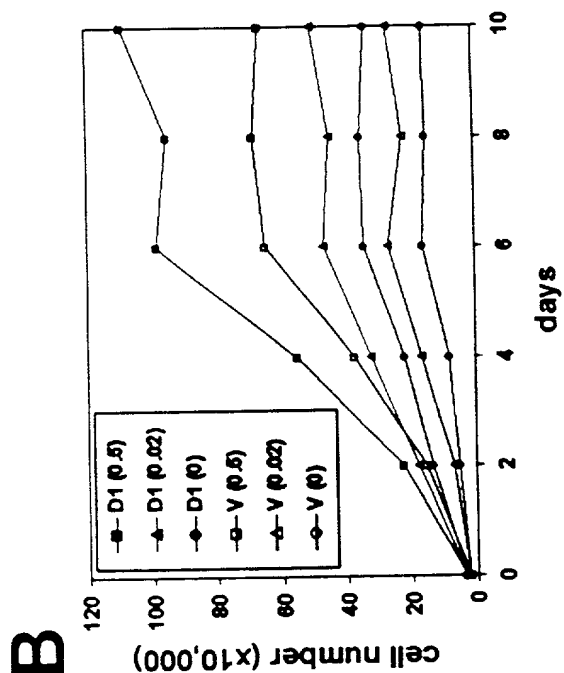
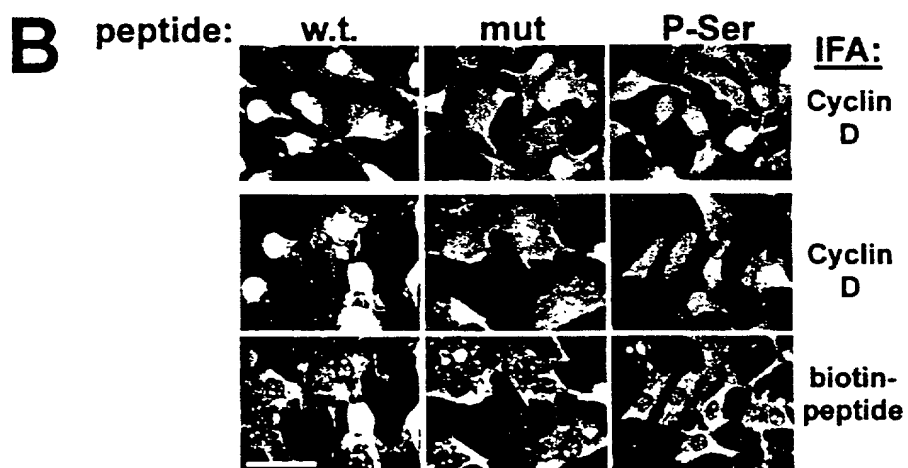
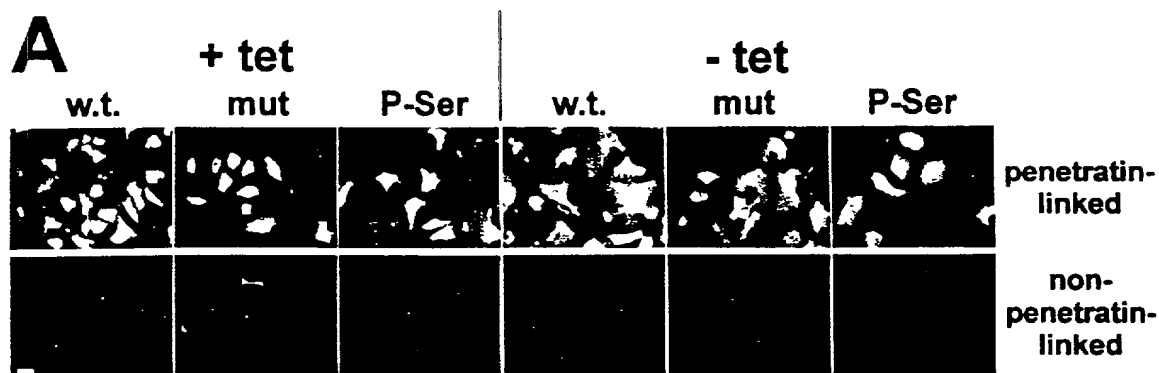


Figure 58  
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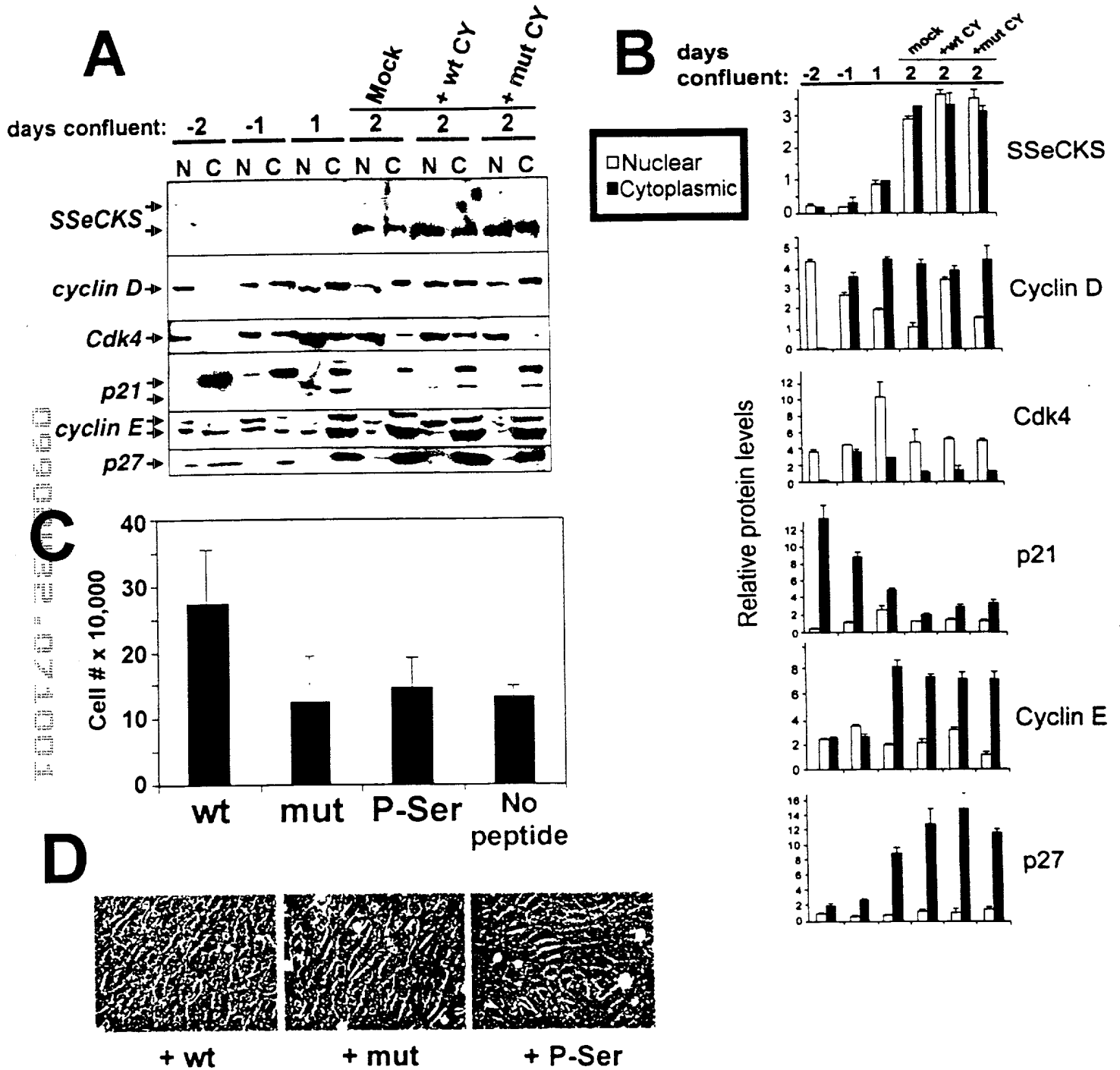


100T40-2420000



Figure 59

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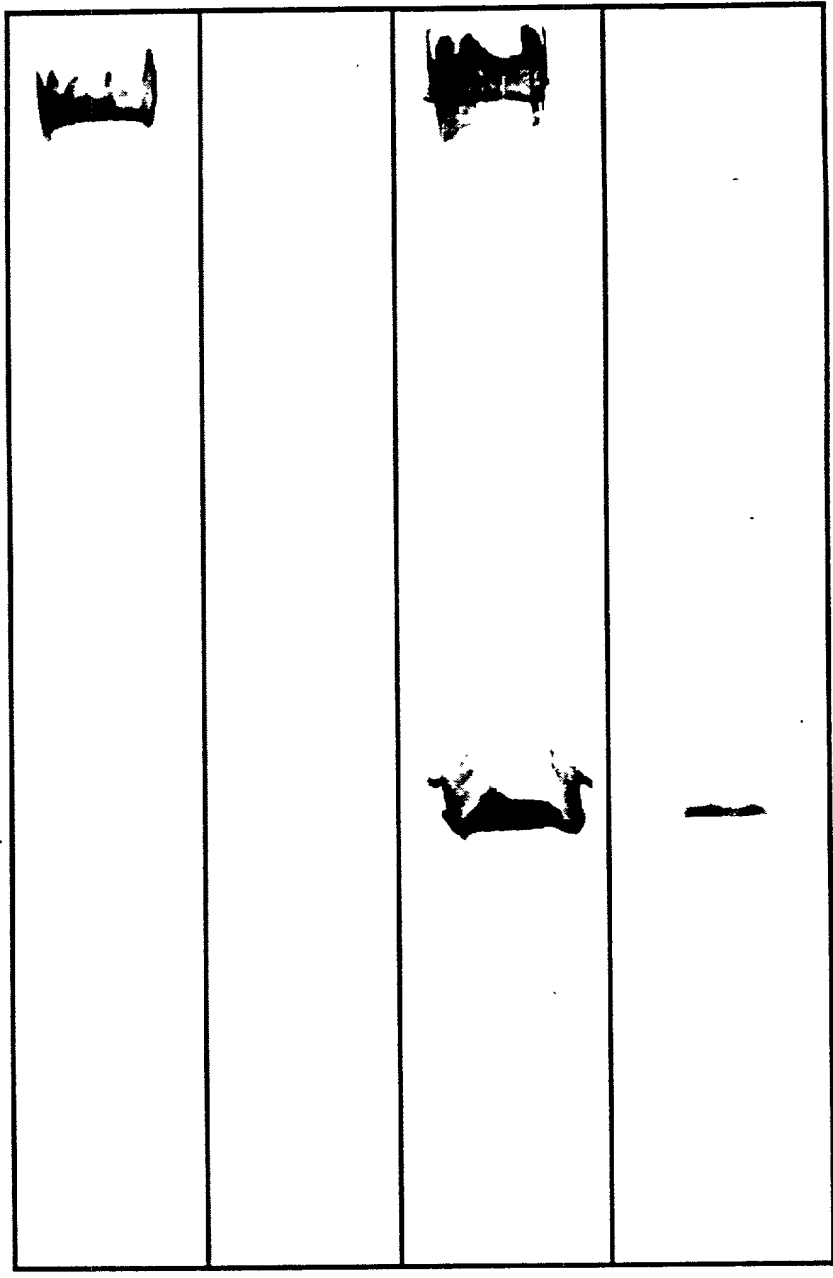
200kDa  
97.5  
66  
44  
30  
21

94A3

78H11

82B3

31A3



200kDa

97.5

66

44

30

21